

TECHNICAL REPORT



**for the
Pennsylvania
System of School Assessment
2005 Reading and Mathematics**

**Provided by
Data Recognition Corporation**

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PREFACE: An Overview of Recent and Future Assessment

The period from 2003 through 2005 brought significant structural changes in the test blueprint for the Pennsylvania System of School Assessment (PSSA). These changes necessitated extensive test development and field-testing activity along with phased-in implementation in the operational assessment. Included in this process was the development of assessments in new or additional grade levels.

For reading and mathematics, content changes for grades 5, 8, and 11 were developed in 2003, field tested in Spring 2004, and implemented in Spring 2005. Test development for the new grade levels of 4, 6, and 7 occurred in 2004, with field testing in 2005 and full implementation scheduled for 2006. The first six chapters of this technical report, which describe test development activities, review of open-ended tasks and multiple-choice items, field testing, statistical analysis of field test data, and selection of items for the operational 2005 PSSA, was provided in a previous document entitled *Preliminary Technical Report for 2005 Reading and Mathematics*.

Changes in the writing assessment were designed to sharpen the focus on what is assessed with respect to Academic Standards 1.4 and 1.5. To support this effort, a shift in grade levels assessed was made, moving from grades 6 and 9 to grades 5 and 8, thereby aligning assessment to the end of elementary and middle school years. The writing testing window was changed from Fall to February for grades 5 and 8, making it consistent with grade 11. Mode-specific scoring guidelines replaced domain scoring, and the introduction of stimulus-based passages and associated multiple-choice items measuring revising and editing contributed to a more valid conventions score. An account of the development of writing prompts and stimulus-based, multiple-choice items, review processes, field testing and item analysis may be found in the *Preliminary Technical Report for 2006 Writing*.

To assist the reader in navigating through the year-to-year changes in all aspects of the PSSA, tables are presented along with explanatory text. Provided is an overview of the subject areas assessed, time of year the testing activity took place, and the type of testing that occurred (operational, field testing, grade 12 retest). [Please note that the grade 3 mathematics and reading assessment is not addressed in this technical report because CTB-McGraw-Hill, the scoring contractor for grade 3, was responsible for preparing that technical report.]

ASSESSMENT ACTIVITIES OCCURRING IN THE 2003–04 SCHOOL YEAR

Table P–1 outlines the operational assessment and field testing administered during the 2003–04 school year. (A spring operational assessment in mathematics and reading took place at grades 3, 5, 8, and 11.)

As a result of new Assessment Anchors developed by the Pennsylvania Department of Education (PDE) during 2003, new test items were developed (see Chapters One and Two of the *Preliminary Technical Report for 2005 Reading and Mathematics*). Following the spring operational assessment, a separate, “standalone” field test of new items for grades 5, 8, and 11 was conducted. Note that grade 11 students also took an operational writing assessment in February, and grade 6 and grade 9 students participated in a Fall writing assessment. Lastly, grade 12 students who, as 11th graders in the preceding spring, failed to attain at least the proficient level in any of the subject areas, were offered an opportunity to retest.

**Table P–1. Operational Assessment and Field Testing
During the 2003–04 School Year**

Grade	Assessment Activity	Date
3	Operational Mathematics and Reading with embedded field test (conducted by CTB-McGraw-Hill)	April
4	No assessment	
5	Operational Mathematics and Reading	April
	Standalone field test in Mathematics and Reading	April/May
6	Operational Writing	October
7	No assessment	
8	Operational Mathematics and Reading	April
	Standalone field test in Mathematics and Reading	April/May
9	Operational Writing	October
11	Operational Mathematics and Reading	April
	Standalone field test in Mathematics and Reading	April/May
	Operational Writing	February
12	Retest opportunity for students who, as grade 11 students in the spring of 2003, failed to reach at least the proficient level in mathematics, reading, or writing	October/ November

ASSESSMENT ACTIVITIES OCCURRING IN THE 2004–05 SCHOOL YEAR

Table P–2 displays the operational assessment and field testing that took place during the 2004–05 school year. The operational assessment at grades 5, 8, and 11 used items chosen from the Spring 2004 field test. This was the first operational assessment that reflected the Pennsylvania Assessment Anchors and Eligible Content. Fulfilling the No Child Left Behind Act of 2001 (NCLB) requirement that states must implement a test at grades 3 through 8, a major field test in mathematics and reading was administered at grades 4, 6, and 7. Item development for these new grade levels took place during 2004.

The grades 6 and 9 writing assessment was abandoned in favor of moving the writing assessment to grades 5 and 8. This accounts for the separate (standalone) field test at these grade levels. There was also a test administration change from October to February. The writing assessment also underwent changes to align the test to the Academic Standards for writing. New writing prompts and stimulus-based, multiple-choice items were also field tested at grade 11 as part of the operational assessment, hence the reference to an “embedded” field test. No assessment activity of any kind occurred at grade 9. As in Fall 2003, the retest opportunity at grade 12 continued.

**Table P–2. Operational Assessment and Field Testing
During the 2004–05 School Year**

Grade	Assessment Activity	Date
3	Operational Mathematics and Reading with embedded field test (conducted by CTB-McGraw-Hill)	April
4	Standalone field test for Mathematics and Reading	April
5	Operational Mathematics and Reading with embedded field test	April
	Standalone field test in Writing	February
6	Standalone field test for Mathematics and Reading	April
7	Standalone field test for Mathematics and Reading	April
8	Operational Mathematics and Reading with embedded field test	April
	Standalone field test in Writing	February
9	No assessment	
11	Operational Mathematics and Reading with embedded field test	April
	Operational Writing with embedded field test	February
12	Retest opportunity for students who as grade 11 students in the spring of 2004 failed to reach at least the proficient level in mathematics, reading, or writing	October/ November

ASSESSMENT ACTIVITIES PLANNED FOR THE 2005–06 SCHOOL YEAR

Table P–3 shows the assessment plan for the 2005–06 school year. Note that the mathematics and reading assessments will be operational consecutively from grades 3 through 8 and at grade 11. For grades 4, 6, and 7, it will be the first year of an operational assessment. Field testing for mathematics and reading will be embedded as part of the operational assessment at each grade level. At grade 3, the reference to field testing with items developed by DRC reflects the transition process of shifting the assessment from CTB-McGraw-Hill to DRC in 2007. As in the previous years, the retest opportunity at grade 12 will continue.

The first operational assessment for writing at grades 5 and 8 takes place this year while the grade 11 writing assessment continues in the same February test window. New this year for all three grade levels, the operational writing assessment features mode-specific scoring guidelines; stimulus-based, multiple-choice items; and a grade-specific emphasis shift in writing modes assessed. Since extensive field testing took place in February 2005, which produced a pool of prompts and multiple-choice items for use over several years, no field testing activity is necessary in 2006.

**Table P–3. Operational Assessment and Field Testing
During the 2005–06 School Year (Planned)**

Grade	Assessment Activity	Date
3	Operational Mathematics and Reading with embedded field test of DRC-written items (conducted by CTB-McGraw-Hill)	April
4	Operational Mathematics and Reading with embedded field test	March
5	Operational Mathematics and Reading with embedded field test	March
	Operational Writing	February
6	Operational Mathematics and Reading with embedded field test	March
7	Operational Mathematics and Reading with embedded field test	March
8	Operational Mathematics and Reading with embedded field test	March
	Operational Writing	February
9	No assessment	
11	Operational Mathematics and Reading with embedded field test	March
	Operational Writing	February
12	Retest opportunity for students who as grade 11 students in the spring of 2005 failed to reach at least the proficient level in mathematics, reading, or writing	October/ November

Chapter One: Background of Pennsylvania System of School Assessment (PSSA)

This brief overview of assessment in Pennsylvania describes the original and subsequent legislative mandates, previous assessment programs, the history of the current program's development process, the program's intent and purpose, recent changes to the program, and the student population that participates in the assessments.

THE ORIGIN OF STATE ASSESSMENT IN PENNSYLVANIA

State assessment of student achievement came about as a result of legislation enacted in 1963. Generally known as the School District Reorganization Act (Act 299), the issue of whether large or small district size provided a better quality education led to the development of Section 299.1 of Act 299, which required the State Board of Education to

... develop or cause to be developed an evaluation procedure designed to measure objectively the adequacy and efficiency of the educational program offered by the public schools of the Commonwealth ... The evaluation procedure shall be so constructed and developed as to provide each school district with relevant comparative data to enable directors and administrators to more readily appraise the educational performance and to effectuate without delay the strengthening of the district's educational program. Tests developed ... shall be used for the purpose of providing a uniform evaluation of each school district ...

In response to the legislative mandate, the State Board of Education contracted with Educational Testing Service of Princeton, New Jersey to engage in a two-year process of surveying and interviewing stakeholders in business, industry, education, and the general public as to what constituted a quality education. This led to the State Board adoption of *The Goals of Quality Education* in 1965. In 1967 the Department of Education formed an organizational unit along with staff to begin developing appropriate measures and engaging in extensive field testing during the 1967-68 and 1968-69 school years.

EDUCATIONAL QUALITY ASSESSMENT (EQA) PROGRAM

The first state assessment of students in Pennsylvania took place in the 1969-70 school year. Initially, state assessment was a purely school-based evaluation in the form of the *Educational Quality Assessment (EQA)* program, which reported grade 5 and 11 school-level results in ten goal areas. Grade 8 was added in 1974. Measuring both cognitive and non-cognitive areas, the program operated from 1970 through 1988. As the program evolved, a matrix sampling design was used in measuring and reporting school results in subject areas such as reading, language arts, mathematics, science, health, social studies, and analytical thinking. Initially, it operated as a voluntary program, but in 1974 it became mandatory on a cyclical basis.

TESTING FOR ESSENTIAL LEARNING AND LITERACY SKILLS (TELLS)

The next major revision in state assessment was the advent of the state's first mandated competency testing program, *Testing for Essential Learning and Literacy Skills (TELLS)* in the 1984–85 school year. The impetus for a statewide essential skills test evolved from an October 1983 document entitled *Turning the Tide: An Agenda for Excellence in Pennsylvania Public Schools*. A two-pronged approach was advocated, calling for

1. competency testing in grades 3, 5, and 8 as an “early warning system” to identify students with reading and mathematics difficulties and
2. state-funded remedial instruction to provide needed additional help.

In response to this and other recommendations, the State Board of Education added *Chapter 3: Student Testing* to its regulations on June 14, 1984. It required all public school students in grades 3, 5, and 8 to be given criterion-referenced tests in reading and mathematics. The second part of the program, remedial instruction, was mandated by Act 93-1984, and required districts to provide remedial instruction programs to students identified by the tests given under the State Board regulation. Subsequently, funds were distributed to districts and intermediate units for this part of the program. The *TELLS* and *EQA* testing programs coexisted until the *EQA* was concluded in 1988. The *TELLS* program continued through the spring of 1991.

THE PENNSYLVANIA SYSTEM OF SCHOOL ASSESSMENT (PSSA)

The Pennsylvania System of School Assessment (PSSA) program was instituted in 1992. The PSSA returned to a school evaluation model with reporting at the school level only. Test administration took place in February/March, and school district participation was every third year based on the strategic planning cycle. Reading and mathematics were assessed at grades 5, 8, and 11; districts could choose to participate in the writing assessment at grades 6 and 9. State Board revisions to Chapter 5 in November 1994 brought major changes to the PSSA, beginning with the Spring 1995 assessment. These changes included

1. all districts were required to participate in the reading and mathematics assessment each year,
2. student-level reports were generated in addition to school reports, and
3. the grades 6 and 9 writing assessment became mandatory on a three-year cycle corresponding to the district's strategic planning cycle.

PENNSYLVANIA ACADEMIC STANDARDS AND THE PSSA

A major structural change took place in test content with the State Board of Education's adoption of the Pennsylvania Academic Standards for Reading, Writing, Speaking and Listening, and Mathematics in January 1999 (Pennsylvania State Board of Education, 1999). The Academic Standards, which are part of *Chapter 4 Regulations on Academic Standards and Assessment*, detailed what students should know (knowledge) and be able to do (skills) at various grade levels. Subsequently, the State Board approved a set of criteria defining Advanced, Proficient, Basic, and Below Basic levels of performance. Reading and mathematics performance level results were reported at both the student and school levels for the 2000 PSSA. At that point, the PSSA became a standards-based, criterion-referenced assessment measuring student attainment of the academic standards while simultaneously determining the extent to which school programs enabled students to achieve proficiency of the standards.

PURPOSES OF THE PSSA

As outlined in Chapter 4 of the State Board Regulations, the purposes of the statewide assessment component of the PSSA are as follows:

1. Provide students, parents, educators, and citizens with an understanding of student and school performance.
2. Determine the degree to which school programs enable students to attain proficiency of academic standards.
3. Provide results to school districts (including charter schools) and Area Vocational Technical Schools (AVTSs) for consideration in the development of strategic plans.
4. Provide information to state policymakers, including the State Senate, the General Assembly, and the State Board, on how effective schools are in promoting and demonstrating student proficiency of academic standards.
5. Provide information to the general public on school performance.
6. Provide results to school districts (including charter schools and AVTSs) based upon the aggregate performance of all students, for students with an Individualized Education Program (IEP), and for those without an IEP.

The broad purpose of the state assessments is to provide information to teachers and schools to guide the improvement of curricula and instructional strategies to enable students to reach proficiency in the academic standards. The areas assessed in 2005 include mathematics and reading at grades 3, 5, 8, and 11 and writing at grade 11.

THE PENNSYLVANIA WRITING ASSESSMENT

In 1990 the state initiated an on-demand writing assessment in which students wrote an essay in response to a particular topic or prompt. Offered to school districts on a voluntary basis, the writing assessment consisted of three modes of writing: narrative, informational, and persuasive. Developed for grades 6 and 9 and using a matrix sampling design, nine prompts (three per mode) were administered to students within a school, although each student responded to just one randomly distributed prompt. Scoring was based on a six-point holistic scale. Student results were aggregated and reported at the school level only. In 1992 the writing assessment was incorporated as part of the PSSA. Beginning in 1995, districts were required to participate in the writing assessment every third year in accordance with their strategic planning cycle. However, districts were also given the choice to participate more frequently. As a result, participation rose dramatically from the expected 167 districts (one-third) in any given year to 235 (47%) in 1995, 306 (61%) in 1996, 412 (82%) in 1997, 445 (89%) in 1998, and 449 (90%) in 1999.

With the advent of the Pennsylvania Academic Standards in 1999, major changes took place in the writing assessment, including alignment to the Academic Standards as well as changes in scoring method, prompts, testing date, and reporting. These changes, which are summarized below, were implemented in the 2000–01 school year and were followed by performance level reporting in the 2001–02 school year.

- The writing assessment became mandatory for all districts every year.
- Administration of the grades 6 and 9 writing assessment was changed from February to October.

- Scoring changed to a 4-point scale for each of five domains (focus, content, organization, style, and conventions).
- Prompts were different for grade 6 and grade 9 rather than being identical at the two grade levels.
- Within a grade level all students responded to two common prompts.
- The reporting model was greatly revised, and individual student reports were issued for the first time.
- A writing assessment for grade 11 was administered for the first time in February 2001.
- In 2002, performance levels were adopted for writing and implemented in the reporting of total writing results for the February grade 11 and Fall 2002 grades 6 and 9 writing assessment.

Additional revisions in the writing assessment, which includes a shift from grades 6 and 9 to grades 5 and 8, changes in writing prompts, and the introduction of stimulus-based multiple-choice items are scheduled for operational implementation in the spring of 2006. A more thorough description of these changes may be found in *Preliminary Technical Report for 2006 Writing*.

Chapter Two: New Test Development Required by NCLB

Spurred by PL 107-110, the *No Child Left Behind* Act of 2001 (NCLB), the Pennsylvania Department of Education (PDE) began to develop plans to expand testing into other grade levels and to design a standards-based assessment for science. Although grade 3 reading and mathematics tests were developed and administered statewide in 2003 and 2004, reporting results in terms of proficiency levels will occur for the first time in 2005. Reading and mathematics test development in the new grade levels of 4, 6, and 7 took place in 2004, with field testing occurring in 2005 and full implementation scheduled for 2006. A field test for science is planned for 2007 with full implementation in 2008.

ASSESSMENT ANCHORS AND ELIGIBLE CONTENT

Educator concerns regarding the number and breadth of Academic Standards led to an initiative by the Pennsylvania Department of Education (PDE) to develop a clear document to explicate what students should know and be able to do. Based on recommendations from teachers, subject-area supervisors, and other curriculum experts, Assessment Anchors (PDE, 2004) were designed as a tool to improve the articulation of curricular, instructional, and assessment practices. The Anchors do not replace the Academic Standards; rather they serve to clarify the standards assessed on the PSSA. They also serve to communicate Eligible Content, also called “assessment limits”, or the range of knowledge and skills from which the PSSA would be designed.

A draft version of the Assessment Anchors and Eligible Content was submitted to Achieve, Inc., Washington, D.C., to conduct a special analysis to evaluate the degree of alignment with the Academic Standards. Preliminary feedback enabled PDE to make adjustments to improve the alignment as the Anchors took final form.

Since the Assessment Anchors encompass grades 3 through 8 and grade 11, the document informs test design for the grades undergoing new test development as well as the grade levels currently assessed.

OVERVIEW OF THE 2005 PSSA

The 2005 PSSA reading and mathematics tests contain items designed to reflect the new Assessment Anchors. They were extensively reviewed and field tested in 2004 (see Chapter Three).

MATHEMATICS ASSESSMENT MEASURES

The 2005 PSSA mathematics assessment has five major *reporting categories*, which replace the eleven categories used previously. The new reporting categories are Numbers and Operations, Measurement, Geometry, Algebraic Concepts, and Data Analysis and Probability. By reorganizing the Assessment Anchors into a five-category reporting structure, there is now a similarity to the categories used by the National Council of Teachers of Mathematics (NCTM) and the National Assessment of Educational Progress (NAEP).

The 2005 PSSA mathematics assessment employs two types of test items: multiple-choice and open-ended. These item types assess different levels of knowledge and provide different kinds of information about mathematics achievement. Psychometrically, multiple-choice items are very useful and efficient tools for collecting information about a student’s academic achievement. Open-ended performance tasks are less efficient in the sense that they generally

generate fewer scorable points in the same amount of testing time. They do, however, provide tasks that are more realistic and tasks that better sample higher-level skills. The design of the 2005 PSSA attempts to achieve a reasonable balance between the two item types. Furthermore, well-constructed scoring guides have made it possible to include open-ended tasks in large-scale assessments such as the PSSA. Trained scorers can apply the scoring guides to efficiently score large numbers of student papers in a highly reliable way.

MULTIPLE-CHOICE ITEMS

The majority of the mathematics items included on the 2005 PSSA are multiple-choice (selected-response items). This item type is especially efficient for measuring a broad range of content. In the PSSA mathematics assessment, each multiple-choice item has four response options, only one of which is correct. The student is awarded one point for choosing the correct response. Distractors typically represent incorrect concepts, incorrect logic, incorrect application of an algorithm, or computation errors.

Multiple-choice items are used to assess a variety of skill levels, from short-term recall of facts to problem solving. PSSA items involving application emphasize the requirement to carry out some mathematical process to find an answer, rather than simply recalling information from memory.

OPEN-ENDED TASKS FOR MATHEMATICS

Open-ended, or constructed-response tasks, require students to read a problem description and to develop an appropriate solution. The 2005 open-ended items require about ten minutes per task. Most of the open-ended items are designed to be scaffolded, which means that they have several components to the overall task that may enable students to enter or begin the problem at different places. In some items, each successive component is designed to assess progressively more difficult skills or higher knowledge levels. Certain components ask students to explain their reasoning for engaging in particular mathematical operations or for arriving at certain conclusions. The types of tasks utilized do not necessarily require computations. Students may also be asked to perform such tasks as constructing a graph, shading some portion of a figure, or listing object combinations that meet specified criteria.

Open-ended tasks are especially useful for measuring students' problem-solving skills in mathematics. They offer the opportunity to present real-life situations that require students to solve problems using math abilities learned in the classroom. Students must read the task carefully, identify the necessary information, devise a method of solution, perform the calculations, enter the solution directly in the answer document, and when required, offer an explanation. This provides insight into the students' mathematical knowledge, abilities, and reasoning processes.

The open-ended mathematics items are scored on a 0-4 point scale with an item-specific scoring guideline. The change from the former 0–5 point scale follows from recommendations by PDE’s Technical Advisory Committee and concerns raised by an independent study of the validity of the PSSA, commissioned by the State Board of Education (Thacker & Dickinson, 2004). The item-specific scoring guideline outlines the requirements at each score point. Item-specific scoring guidelines are based on the General Description of Mathematics Scoring Guidelines for Open-Ended Items. The general guidelines describe a hierarchy of responses, which represent the five score levels (see *Mathematics Item and Scoring Sampler*, PDE, 2005, available on the PDE web site):

4 – The response demonstrates a *thorough* understanding of the mathematical concepts and procedures required by the task.

The response provides correct answer(s) with clear and complete mathematical procedures shown and a correct explanation, as required by the task. Response may contain a minor “blemish” (e.g., missing \$) or omission in work or explanation that does not detract from demonstrating a *thorough* understanding.

3 – The response demonstrates a *general* understanding of the mathematical concepts and procedures required by the task.

The response and explanation (as required by the task) are mostly complete and correct. The response may have minor errors or omissions that do not detract from demonstrating a *general* understanding.

2 – The response demonstrates a *partial* understanding of the mathematical concepts and procedures required by the task.

The response is somewhat correct with *partial* understanding of the required mathematical concepts and/or procedures demonstrated and/or explained. The response may contain some work that is incomplete or unclear.

1 – The response demonstrates a *minimal* understanding of the mathematical concepts and procedures required by the task.

0 – The response has no correct answer and *insufficient* evidence to demonstrate any understanding of the mathematical concepts and procedures required by the task for that grade level.

Response may show only information copied from the question.

Special Categories within zero reported separately:

BLK – Blank, entirely erased, or written refusal to respond

OT – Off task

IL – Illegible

LOE – Response in a language other than English

READING ASSESSMENT MEASURES

The 2005 PSSA reading assessment has two major *reporting categories*, Comprehension and Reading Skills and Interpretation and Analysis of Fiction and Nonfiction Text. These two reporting categories are derived from Reading Academic Standards 1.1, 1.2, and 1.3. Standards 1.7 and 1.8 are not addressed on the PSSA because they are not specific to reading comprehension and can be more accurately evaluated at the school level.

The reading assessment employs two types of test items: multiple-choice and open-ended. They are designed to measure students' comprehension of the information contained in the reading passages.

MULTIPLE-CHOICE ITEMS

Multiple-choice items measure such concepts as how well students comprehend the overall meaning of a passage or make basic inferences about it. At times, asking students to choose a preferred answer is the best way to determine whether they have gleaned certain important information from a story. Such information may include setting, central idea, or main events and their sequence.

Each reading multiple-choice item has four response options, only one of which is correct. The student is awarded one point for choosing the correct response. Incorrect response choices, or distractors, typically represent some kind of misinterpretation, predisposition, unsound reasoning, or casual reading.

OPEN-ENDED TASKS FOR READING

Open-ended tasks are designed to address comprehension of text in ways that multiple-choice items cannot. A short written response, requiring about ten minutes per item, allows students to prepare an answer and summarize using supporting details or examples derived from the text.

The reading open-ended items are scored on a 0-3 point scale with an item-specific scoring guideline. The change from the former 0-4 point scale improves the alignment with the types of tasks required and is consistent with the scale used on the National Assessment of Educational Progress (NAEP). Each task is text-dependent and is carefully constructed with the scoring guide reflecting the task requirements. All item-specific scoring guidelines are based on the General Scoring Guidelines for Open-Ended Reading Items. The general guidelines describe a hierarchy of responses, which represent the four score levels presented on the next page (see *Reading Item and Scoring Sampler*, PDE, 2005, available on the PDE website):

3 Points

- The response provides a complete answer to the task, e.g., a statement that offers a correct answer as well as text-based support.
- The response provides specific, appropriate (e.g., naming, describing, explaining, or comparing) and accurate details or examples.

2 Points

- The response provides a partial answer to the task, e.g., indicates some awareness of the task and at least one text-based detail.
- The response attempts to provide sufficient, appropriate details (e.g., naming, describing, explaining, or comparing) or examples; may contain minor inaccuracies.

1 Point

- The response provides an incomplete answer to the task, e.g., indicating either a misunderstanding of the task or no text-based details.
- The response provides insufficient or inappropriate details or examples that have a major effect on accuracy.

0 Points

- The response provides insufficient material for scoring.
- The response is inaccurate in all aspects.

Categories within zero reported separately:

- **BLK (blank) = no response or written refusal to respond or too brief to determine response.**
- **OT = off task/topic.**
- **LOE = response in a language other than English.**
- **IL = illegible.**

MATRIX SAMPLING ASSESSMENT DESIGN

As stated in Chapter One, the PSSA was originally designed as a complex matrix-sampling scheme for both mathematics and reading, which was very efficient for measuring *school-level* performance, but less efficient for providing *student-level* assessments and diagnostics. In the present design, all forms contain a *common* core of items to which all students respond and *matrix* items that vary by form. Both the *common* and *matrix* sections of the 2005 PSSA use traditional multiple-choice items and open-ended performance tasks. The forms are *spiraled* so that all forms are distributed uniformly within each testing room. This ensures that each matrix section is administered to an unbiased and sequentially random sample of students in each school. Since multiple forms are administered, the blocks of matrix items expand the number of items available to more broadly measure the Assessment Anchors for school-level reporting.

The design changes that began to take effect with the Spring 2000 administration shifted the measurement focus toward the student and away from the school. Beginning in 2000, student-level results were reported on an individual student report with diagnostic results at the *academic content standard* level. All student-level results were based on the common items only and presented in the raw-score, percent-correct metric. In order to accommodate this change in focus, the common section was expanded to better reflect the curriculum. To administer the tests in a reasonable length of time, enhancing the common sections required a compensatory reduction of the matrix sections.

The PSSA design from 2000 through 2004, as well as the 2005 PSSA, is an attempt to have the best of both worlds:

- All student-level results are based on the common core of items that all students in a grade are administered. This ensures that all students are evaluated using the same set of items.
- School-level content area total score results are based on the mean of the student-level scaled scores. This ensures that the results used for school accountability directly reflect the student-level results.
- School-level results at the content standard (academic standards category) level are based on the common items together with all embedded operational items on the matrix forms (embedded field-test items are not included in school-level results). This ensures that decisions regarding potential strengths and weaknesses at the school level better sample the entire curriculum.

Chapter Three: Item Development Process

As indicated in Chapter One, a series of major activities took place in 2003 and 2004, which culminated in the implementation of changes to the structure of the operational PSSA in the 2005 assessment. These key activities included the development of the Pennsylvania Assessment Anchors, test item development, content review, bias/sensitivity review, field-test of new reading and mathematics items in Spring 2004, item review with data, and final selection of items to compose the 2005 PSSA. The table below provides a timeline of these major activities, which are described in some detail in this chapter as well as in Chapters Four and Five. It should also be noted that test items for the 2004 field test were developed by Data Recognition Corporation (DRC) and WestEd.

Table 3–1. General Timeline Associated with 2004 Field Test and 2005 Operational Assessment of Mathematics and Reading at Grades 5, 8, and 11.

Time Frame	Activity
September–November 2003	Development/Approval of Pennsylvania Assessment Anchors
October 2003–January 2004	Item Development for 2004 Stand alone Field Test
January 13–16, 2004	Item Review and Bias and Sensitivity Review of Newly Developed Items for 2004 Field Test
January–March 2004	Forms Construction for 2004 Field Test
March–July 2004	Item Development for Newly Developed Items to Embed on 2005 Operational Assessment
April 26–May 7, 2004	2004 Field Test
August 9–10, 2004	Statistical Review of Field-Tested Items
August 9–12, 2004	Item Review and Bias and Sensitivity Review of Newly Developed Items for Embedding on 2005 Operational Assessment
September 2004–January 2005	Forms Construction for 2005 to Embed Operational Assessment
April 4–15, 2005	2005 Operational Assessment

TEST CONTENT BLUEPRINT FOR 2005

As indicated in Chapter One, the PSSA is based on the Pennsylvania Academic Standards. The PSSA test for 2005 reflects the new Assessment Anchors, which were designed as a means of improving the articulation of curricular, instructional, and assessment practices. The Anchors serve to clarify the Academic Standards assessed on the PSSA and to communicate “assessment limits” or the range of knowledge and skills from which the PSSA would be designed. Relevant to item development and the Spring 2004 field test are the refinement and clarification embodied in the Assessment Anchors (PDE, 2004). Since the Assessment Anchors encompass grades 3 through 8 and grade 11, the document informs test design for the grades undergoing new test development as well as the grades currently assessed.

The PSSA test for grades 3, 5, 8, and 11 in 2005 followed a new blueprint and testing plan to reflect the new assessment anchors and item distribution. (The first operational administration of the PSSA for grades 4, 6, and 7 will take place in 2006.)

2005 OPERATIONAL LAYOUT FOR READING AND MATHEMATICS: GRADES 5, 8, AND 11

The mathematics and reading PSSA plan was developed through the collaborative efforts of Data Recognition Corporation (DRC) and National Center for Improvement of Educational Assessment (NCIEA). The plan was subsequently evaluated and approved by PDE. The reading and mathematics tests are combined in one test booklet and one separate answer booklet. The test booklet contains reading passages and reading and mathematics multiple-choice items. The answer booklet contains scannable pages for multiple-choice (MC) responses, open-ended (OE) items with response spaces, and demographic data collection areas. All MC items are worth 1 point. Reading OE items receive a maximum of 3 points (scale of 0-3) and mathematics OE items receive a maximum of 4 points (scale of 0-4). Each test form contains common, items (identical on all forms) along with matrix/embedded field-test items. The common items consist of a set of “core” items taken by all students. The matrix items and the embedded field-test items are unique, in most instances, to a form. (That is, there are several instances in which a matrix or embedded field-test OE item appears on more than one form.)

At these grades, the 2005 PSSA comprises 20 forms per grade. All of the forms contain the common items identical for all students and sets of generally unique (“matrix”) items that fulfill several purposes (see Appendix A for the 2005 PSSA Test Book Session Layout Plan). These purposes include

1. Expanding the total pool of items for school-level reporting,
2. Field testing new items,
3. Using items from the previous year’s assessment for the purpose of linking.

The following two tables display the design for reading and mathematics for forms 1 through 16. The column entries for these tables denote

- the grade level (Grade),
- number of common or core MC items (Core MC),
- number of matrix MC items included in school-level reporting (Matrix MC),
- number of embedded MC field-test items (Embedded FT MC),
- number of common or core OE items (Core 3-pt. or Core 4-pt. OE),
- number of matrix OE items included in school-level reporting (Matrix OE),
- number of embedded OE field-test items (Embedded FT OE),
- total number of MC and OE items in the form (Total Items MC/OE),
- the number of passages (in the case of reading) (Passages), and
- the total number of operational points (derived from Core MC and Core OE only) for producing a student score (Total Operational Points).

Table 3–2. Reading Test Plan 2005 per Operational Form (16 Forms: Forms 1–16)

Grade	Core MC	Matrix MC	Embedded FT MC	Core 3-pt. OE	Matrix OE	Embedded FT OE	Total Items MC/OE	Passages	Total Operational Points
5	40	8	8	4	1	1	56/6	6–8	52
8	40	8	8	4	1	1	56/6	6–8	52
11	40	8	8	4	1	1	56/6	6–8	52

Table 3–3. Mathematics Test Plan 2005 per Operational Form (16 Forms: Forms 1–16)

Grade	Core MC	Matrix MC	Embedded FT MC	Core 4-pt. OE	Matrix OE	Embedded FT OE	Total Items MC/OE	Total Operational Points
5	54	4	8	3	1	1	66/5	66
8	54	4	8	3	1	1	66/5	66
11	54	4	8	3	1	1	66/5	66

Since an individual student's score is based solely on the common, or core, items the total number of operational points is 52 for reading and 66 for mathematics. The total score is obtained by combining the points from the core MC and OE portions of the test as follows:

$$\text{Student's Score in Reading} = 40 \text{ MC items plus four 3-point OE items} = 52$$

$$\text{Student's Score in Mathematics} = 54 \text{ MC items plus three 4-point OE items} = 66$$

School-level reporting relies on the matrix items to expand the pool of items available to produce a more extensive content breakdown of results than is possible for student-level reporting.

LINKING FORMS

Forms 17–20 differed from Forms 1–16. Eight reading field-test positions were replaced with 8 multiple-choice items from the 2004 PSSA, and eight mathematics field-test positions and three matrix item positions were replaced by 11 multiple-choice items from the 2004 PSSA. This provided a total of 32 reading and 44 mathematics item positions for linking purposes. The purpose of the linking items was to form a statistical bridge between the 2004 and 2005 assessments. The mathematics matrix sections for each grade held 40 unique linking items and the reading matrix sections held 32 unique linking items for each grade. The matter of linking will be treated more fully in Chapter 11.

Table 3–4. Reading Test Linking Plan 2005 per Operational Form (4 Forms: Forms 17–20)

Grade	Core MC	Matrix MC	Matrix Linking MC	Embed-ded FT MC	Core 3-pt. OE	Matrix OE	Embed-ded FT OE	Total Items MC/OE	Passages	Total Operational Points
5	40	8	8	0	4	1	1	56/6	6–8	52
8	40	8	8	0	4	1	1	56/6	6–8	52
11	40	8	8	0	4	1	1	56/6	6–8	52

Table 3–5. Mathematics Test Linking Plan 2005 per Operational Form (4 Forms: Forms 17–20)

Grade	Core MC	Matrix MC	Linking 2004	Embed-ded FT MC	Core 4-pt. OE	Matrix OE	Embed-ded FT OE	Total Items MC/OE	Total Operational Points
5	54	0	11	1	3	1	1	66/5	66
8	54	0	11	1	3	1	1	66/5	66
11	54	0	11	1	3	1	1	66/5	66

TEST SESSIONS AND TIMING

The test window for the 2005 operational assessment extended from April 4 through April 15, 2005 including make-ups. The reading and mathematics assessments consisted of six sections. Test administration recommendations called for each section to be scheduled as one assessment session, although schools were permitted to combine multiple sections in a single session. Administration guidelines stipulated that the sections be administered in the sequence in which they are printed in the test booklets. The following tables outline the assessment schedule and estimated times for each section (“MC” refers to multiple-choice and “OE” refers to open-ended items).

Table 3–6. Reading and Mathematics – Grade 5

Section	Suggested Time (Minutes)	Subject/Contents
1	60	Mathematics 22 MC, 2 OE
2	65	Reading 25 MC, 2 OE
3	60	Mathematics 22 MC, 2 OE
4	50	Reading 16 MC, 2 OE
5	50	Mathematics 22 MC, 1 OE
6	50	Reading 15 MC, 2 OE

Table 3–7. Reading and Mathematics – Grades 8 & 11

Section	Suggested Time (Minutes)	Subject/Contents
1	60	Mathematics 22 MC, 2 OE
2	65	Reading 24 MC, 2 OE
3	60	Mathematics 22 MC, 2 OE
4	50	Reading 16 MC, 2 OE
5	50	Mathematics 22 MC, 1 OE
6	50	Reading 16 MC, 2 OE

REPORTING CATEGORIES AND POINT DISTRIBUTION

The **reading assessment** results will be reported in two broad categories:

- A. Comprehension and Reading Skills
- B. Interpretation and Analysis of Fiction and Nonfiction Text

Assessment Anchors associated with Comprehension and Reading Skills are coded with an initial letter “A” and those related to Interpretation and Analysis of Fiction and Nonfiction Text are coded with an initial letter “B.” The distribution of items into these two categories is shown on the following table.

Table 3–8. Reading Reporting Categories and Point Distribution

Grade	Category A Comprehension and Reading Skills % (number of points)	Category B Interpretation and Analysis of Fiction and Nonfiction Text % (number of points)	% of Passages (Genre) Fiction	% of Passages (Genre) Nonfiction
Grade 5	70% (34–38)	30% (14–18)	60%	40%
Grade 8	50% (23–29)	50% (23–29)	50%	50%
Grade 11	50% (23–29)	50% (23–29)	40%	60%

The **mathematics assessment** results will be reported in five categories that approximately correspond to those advocated by the National Council of Teachers of Mathematics (NCTM). The code letters for these Assessment Anchor categories are A–E and correspond, in order, to:

- A. Numbers and Operations
- B. Measurement
- C. Geometry
- D. Algebraic Concepts
- E. Data Analysis and Probability

The distribution of mathematics items into these five categories is shown in the following table.

Table 3–9. Mathematics Reporting Categories and Point Distribution

Grade	Category A Numbers & Operations % (number of points)	Category B Measurement % (number of points)	Category C Geometry % (number of points)	Category D Algebraic Concepts % (number of points)	Category E Data Analysis & Probability % (number of points)	Total Points
5	41%–45% (27–30)	12%–15% (8–10)	12%–15% (8–10)	13%–17% (9–11)	12%–15% (8–10)	60–71
8	18%–22% (12–15)	12%–15% (8–10)	15%–20% (10–13)	25%–30% (17–20)	15%–20% (10–13)	57–71
11	12%–15% (8–10)	12%–15% (8–10)	12%–18% (8–12)	38%–42% (25–28)	12%–18% (8–12)	57–72

Both the reading and mathematics content area anchors are further subdivided for specificity and eligible content or limits. Each subdivision is coded by adding an additional numeral, e.g., A.1. These subdivisions are called “Assessment Anchors” and “Eligible Content.”

ASSESSMENT ANCHORS SUBSUMED WITHIN REPORTING CATEGORIES

For mathematics there are 16 Assessment Anchors that occur at all grade levels (grades 3 through 8 and 11), although they are not all assessed at each grade level. More specifically, the number targeted for assessment by grade level are 12 at grade 3, 14 at grade 4, 14 at grade 5, 14 at grade 6, 15 at grade 7, 16 at grade 8, and 16 at grade 11.

For reading there are five Assessment Anchors that vary to reflect grade-level appropriateness. Within the Comprehension and Reading Skills Reporting Category, two Assessment Anchors pertain to understanding fiction text and understanding nonfiction text. Within the Interpretation and Analysis of Fiction and Nonfiction Text Reporting Category, three Assessment Anchors pertain to Components of Text, Literary Devices and Concepts, and Organization of Nonfiction Text.

Total reading and mathematics scores reported at the student level are based on the core (common) sections. Also reported are the student’s reading and mathematics performance levels. At the school and district-levels, Assessment Anchor results are based on the core (common) and matrix sections, excluding the embedded field-test items.

See Appendix B for a summary by grade and subject.

TEST DEVELOPMENT CONSIDERATIONS

Alignment to the PSSA Assessment Anchors and Eligible Content, grade-level appropriateness (reading/interest level, etc.), Depth of Knowledge, cognitive level, item/task level of complexity, estimated difficulty level, relevancy of context, rationale for distractors, style, accuracy, and correct terminology were major considerations in the item development process. *The Standards for Educational and Psychological Testing* (AERA, APA, NCME, 1999) and the *Principles of Universal Design* (Thompson, Johnstone, & Thurlow, 2002) guided the development process. In addition, DRC's *Bias, Fairness, and Sensitivity Guidelines* were used for developing items free of bias, fairness, and sensitivity issues. All items were reviewed for fairness by bias and sensitivity committees and for content by Pennsylvania educators and field-specialists. Items were also reviewed for adherence to the principles of Universal Design by representatives from the National Center for Educational Outcomes (NCEO) and adherence to the guidelines outlined in the Pennsylvania publication *Principles, Guidelines and Procedures for Developing Fair Assessment Systems: Pennsylvania Assessment Through Themes* (PATT).

UNIVERSAL DESIGN

As stated above, the principles of Universal Design were incorporated throughout the item development process to allow participation of the widest possible range of students in the PSSA. The following checklist was used as a guideline:

1. Items measure what they are intended to measure.
2. Items respect the diversity of the assessment population.
3. Items have a clear format for text.
4. Stimuli and items have clear pictures and graphics.
5. Items have concise and readable text.
6. Items allow changes to format, such as Braille, without changing meaning or difficulty.
7. The arrangement of the items on the test has an overall appearance that is clean and well organized.

A more extensive description of the application of Universal Design principles is described in Chapter Four.

DEPTH OF KNOWLEDGE

Important in statewide assessment is the alignment between the overall assessment system and the state's standards. A methodology developed by Norman Webb (1999) offers a comprehensive model that can be applied to a wide variety of contexts. With regard to the alignment between standards statements and the assessment instruments, Webb's criteria include five categories, one dealing with content. Within the content category is a useful set of levels for evaluating depth of knowledge. According to Webb (1999, p.7–8) "depth-of-knowledge consistency between standards and assessments indicates alignment if what is elicited from students on the assessment is as demanding cognitively as what students are expected to know and do as stated in the standards." The four levels of cognitive complexity (depth of knowledge) are:

- Level 1: Recall
- Level 2: Skill / Concept
- Level 3: Strategic Thinking
- Level 4: Extended Thinking

Depth-of-knowledge levels were incorporated in the item writing and review process, and items were coded with respect to the level they represented.

TEST ITEM WRITERS AND TRAINING IN ITEM WRITING

DRC and WestEd selected and trained item writers. Qualified writers were college graduates with teaching experience and a demonstrated base of knowledge in the content area. Many of these writers were content assessment specialists and curriculum specialists. The writers were trained individually and had previous experience in writing multiple-choice and open-ended response items. Prior to developing items for the PSSA the cadre of item writers was trained with regard to:

- Pennsylvania Academic Standards, Assessment Anchors, and Eligible Content
- Webb's Four Levels of Cognitive Complexity: Recall, Basic Application of Skill/Concept, Strategic Thinking, and Extended Thinking
- General scoring guidelines for each content area
- Specific and General Guidelines for Item Writing
- Bias, Fairness, and Sensitivity
- Principles of Universal Design
- Item Quality Technical Style Guidelines
- Reference Information
- Sample Items

READING PASSAGE SELECTION

The task of searching for passages was conducted by DRC and WestEd professionals with classroom experience in reading/language arts. They had also undergone specialized training (provided by DRC) in the characteristics of acceptable passages. Guidelines for passage selection included appropriate length, text structure, density, and vocabulary for the grade level. A judgment was also made about whether the reading level required by a particular passage was at the independent level, i.e., where the average student should be able to read 90 percent of words in the text independently. Passage finders were given the charge to search for a specified number of passages for each genre. Generally, at least twice as many passages as needed were sought. All passages acquired for the 2004 field test were “authentic” in that they were culled from published materials. To be used in the PSSA, approval to reprint was secured from the publisher. Passages underwent an internal review by several test development content editors to judge their merit with regard to the following criteria:

- Passages have interest value for students.
- Passages are grade appropriate in terms of vocabulary and language characteristics.
- Passages are free of bias/sensitivity issues.
- Passages represent different cultures.
- Passages are from a variety of sources.
- Passages should be able to stand the test of time.
- Passages are sufficiently “rich” to generate a variety of MC and OE items.
- Passages are complete with all necessary permissions documentation.

Once through the internal review, those passages deemed potentially acceptable were reviewed by the Reading Content Committee and Bias/Sensitivity Committee for final approval.

PASSAGE READABILITY

Evaluating the readability of a passage is essentially a judgmental process by individuals familiar with the classroom context and what is linguistically appropriate at a given grade level as described in the preceding section on reading passage selection. Although various readability indices were computed and reviewed, it is recognized that such methods measure different aspects of readability and are often fraught with particular interpretive liabilities. Thus, the commonly available readability formulas were not used in a rigid way, but more informally to provide for several “snapshots” of a passage that senior test development staff considered along with experience-based judgments in guiding the passage selection process. In addition, passages were reviewed by committees of Pennsylvania educators who evaluated each passage for readability and grade-level appropriateness.

READABILITY OF TEST ITEMS

Careful attention was given to the readability of the items to make certain that the assessment focus of the item did not shift based on the difficulty of reading the item. The issue of readability was addressed for all items during the final editing of items and at the item content review. Vocabulary was also addressed at the Bias/Sensitivity Committee review, although the focus was on how certain words or phrases may represent a possible source of bias or issues of sensitivity.

PROCESS OF ITEM CONSTRUCTION

To ensure that the items produced were sufficient in number and adequately distributed across subcategories and levels of difficulty, item writers were informed of the required quantities of items. As items were written, an item authoring card was completed. It contained information about the item, such as grade level, content category, and subcategories. Based on the item writer's classroom teaching experience, knowledge of the content-area curriculum, and cognitive demands required by the item, estimates were recorded for level of cognitive complexity and difficulty level. Items were written to provide for a range of difficulty.

ITEM CONTENT REVIEW IN JANUARY 2004

Prior to field testing, all newly developed test items were submitted to content committees for review. The content committees consisted of Pennsylvania teachers and subject-area supervisors from school districts throughout the Commonwealth of Pennsylvania, some with postsecondary university affiliations. The primary responsibility of the content committee was to evaluate items with regard to quality and content classification, including grade-level appropriateness, estimated difficulty, depth of knowledge, and source of challenge. They also suggested revisions and made recommendations for reclassification of items. In some cases when an item was deleted, the committee suggested a replacement item and/or reviewed a suggested replacement item provided by the facilitators. The committee also reviewed the items for adherence to the principles of universal design, including language demand and issues of bias, fairness, and sensitivity.

The content review was held January 12–15, 2004. Committee members were selected by PDE, and PDE-approved invitations were sent to them by DRC. PDE also selected internal PDE staff members for attendance. The meeting commenced with a presentation of the new assessment anchors by Carina Wong, Director of Assessment and Accountability. This was followed by an overview of the test development process by Patricia McDivitt, Vice President of Test Development (DRC). Ms. McDivitt also provided training on the procedures and forms to be used for item content review.

DRC assessment specialists in mathematics and reading facilitated the reviews and were assisted by representatives of PDE and WestEd. Two representatives from the National Center for Educational Outcomes (NCEO) also observed and gave comments to the content review groups. Other outside consultants included representatives from The Education Trust, Washington, D.C., and the National Center for Improvement of Educational Assessment (NCIEA). DRC, WestEd, and PDE staff contributed during the meetings and afterwards in a wrap-up session. Committee members, grouped by grade level and content area, worked through and reviewed the items for quality and content, as well as for the following categories designated on the Item Review Form, which may be found in Appendix C:

1. Anchor Alignment (classified as Full, Partial, or No)
2. Content Limits (classified as Yes or No)
3. Grade-Level Appropriateness (classified as at grade level, below, or above grade level)
4. Difficulty Level (classified as Easy, Medium, or Hard)
5. Depth of Knowledge (classified as Recall, Application, Strategic Thinking)
6. Appropriate Source of Challenge (classified as Yes or No)

7. Correct Answer (classified as Yes or No)
8. Quality of Distractors (classified as Yes or No)
9. Graphics (classified as Yes or No)
10. Appropriate Language Demand (classified as Yes or No)
11. Freedom from Bias (classified as Yes or No)

The members then assigned each item a status: Approved, Accepted with Revision, Move to Another Assessment Anchor or Grade, or Revise/Rewrite. All comments were recorded, and each rating sheet was signed by each member, collected, and filed. A general review and informal resolution process took place on Friday, January 16, 2004, with PDE, DRC, WestEd, and PDE consultants in attendance.

Security was addressed by adhering to a strict set of procedures. Items in binders were distributed for committee review by number and signed for by each member on a daily in/out basis. All attendees, with the exception of PDE staff, were required to sign a Confidentiality Agreement. All materials not in use at any time were stored in a locked room for which there were only two keys assigned to DRC personnel. The lock to this room had been newly re-keyed so that no hotel employee or other person had access. Secure materials that did not need to be retained after the meetings were deposited in secure barrels and their contents were shredded.

BIAS AND SENSITIVITY REVIEWS

Prior to field testing, all newly developed test items for grades 5, 8, and 11 were also submitted to a Bias and Sensitivity Committee for review. This took place on January 13–16, 2004. The committee's primary responsibility was to evaluate items as to acceptability with regard to bias and sensitivity issues. They also made recommendations for changes or deletion of items in order to remove the potential for bias, fairness, and/or sensitivity. Included in the review were proposed reading passages. An expert, multi-ethnic committee composed of men and women was trained by a DRC test development director to review items for bias and sensitivity issues. Training materials included a manual developed by DRC (DRC, 2003). Members of the committee also had expertise with special needs students and English Language Learners. Two PDE staff members were also trained and participated in the review. Carina Wong, Director of Assessment and Accountability at PDE, and a representative from WestEd observed the training. All reading and mathematics items were read by some of the committee members and some items were read by a cross-section of members. Each member noted bias and/or sensitivity comments on tracking sheets and on the item, if needed, for clarification. All comments were then compiled, and the actions taken on these items were recorded and submitted to PDE. This review followed the same security procedures as outlined above, except that the materials were locked up and stored at the DRC offices in Harrisburg.

In November 2003 a bias and sensitivity review took place in which items used in previous assessments were reviewed prior to placing them on the 2004 operational test. A summary of comments from the review is in Appendix D. This is relevant in that some of these items had the potential to be used as linking items in the 2005 assessment. Bias and sensitivity reviews for field-test items to be embedded with the grade 5, 8, and 11 operational 2005 reading and mathematics assessment were conducted in August 2004. Newly developed items for the 2005 field test in reading and mathematics for the emerging grade levels of 4, 6, and 7 and newly developed writing items underwent bias review in October 2004. A synopsis of the meetings is in Appendix E.

ITEM AUTHORIZING AND TRACKING

Initially, items are prepared on PSSA Item Cards and used for preliminary sorting and review. Although very similar, the PSSA Item Card for Multiple-Choice Items differs from the PSSA Item Card for Open-Ended Items in that the former has a location at the bottom of the card for comments regarding the distractors. Blank examples of these two cards are shown in Appendix F. In both instances a column against the right margin provides for codes to identify the subject area, grade, content categories, passage information (in the case of reading), item type, depth of knowledge (cognitive complexity), estimated difficulty, answer key (MC items), and calculator use (mathematics).

All items undergoing field-testing were entered into the DRC Item Viewer and Authoring Network™ (IVAN), which is a comprehensive, secure, online item banking system. It accommodates item writing, item viewing and reviewing, and item tracking and versioning. IVAN manages the transition of an item from its developmental stage to its approval for use within a test form. The system supports an extensive item history that includes item usage within a form, item-level notes, content categories and subcategories, item statistics from both classical and Rasch item analyses, and classifications derived from analyses of differential item functioning (DIF). A sample IVAN Item Card is also presented in Appendix F.

Chapter Four: Universal Design Procedures Applied in the PSSA 2005 Test Development Process

Universally designed assessments allow participation of the widest possible range of students and contribute to valid inferences about participating students. Principles of Universal Design are based on the premise that each child in school is a part of the population to be tested, and that testing results should not be affected by disability, gender, race, or English language ability (Thompson, Johnstone & Thurlow, 2002). At every stage of the item and test development process, including the 2004 field test, procedures were employed to ensure that items and subsequent tests were designed and developed using the elements of universally designed assessments developed by the National Center for Educational Outcomes (NCEO).

Federal legislation addresses the need for universally designed assessments. The *No Child Left Behind* Act (Elementary and Secondary Education Act) requires that each state must “provide for the participation in [statewide] assessments of all students” [Section 1111(b)(3)(C)(ix)(I)]. Both Title 1 and IDEA regulations call for universally designed assessments that are accessible and valid for all students, including students with disabilities and students with limited English proficiency. The benefits of universally designed assessments not only apply to these groups of students, but to all individuals with wide-ranging characteristics.

DRC’s test development team was trained in the elements of universal design as it relates to developing large-scale statewide assessments. Team leaders were trained directly by NCEO, and other team members were subsequently trained by the team leaders. Committees involved in content review included some members who were familiar with the unique needs of students with disabilities and students with limited English proficiency. Likewise some members of the Bias and Sensitivity Review Committee were conversant with these issues. What follows are the universal design guidelines followed during all stages of the item development process for the 2005 PSSA.

ELEMENTS OF UNIVERSALLY DESIGNED ASSESSMENTS

After a review of research relevant to the assessment development process and the principles of Universal Design (Center for Universal Design, 1997), NCEO has produced seven elements of universal design as they apply to assessments (Thompson, Johnstone & Thurlow, 2002). These elements served to guide PSSA item development.

- **Inclusive Assessment Population**
The PSSA target population includes all students at the assessed grades attending Commonwealth schools. For state, district, and school accountability purposes, the target population includes every student except those who will participate in accountability through an alternate assessment.
- **Precisely Defined Constructs**
An important function of well-designed assessments is that they actually measure what they are intended to measure. The Pennsylvania Assessment Anchors provided clear descriptions of the constructs to be measured by the PSSA at the assessed grade levels. Universally designed assessments must remove all non-construct-oriented cognitive, sensory, emotional, and physical barriers.

- **Accessible, Non-biased Items**

DRC conducted both internal and external reviews of items and test specifications to ensure that they did not create barriers because of lack of sensitivity to disability, culture, or other subgroups. Items and test specifications were developed by a team of individuals who understand the varied characteristics of items that might create difficulties for any group of students. Accessibility is incorporated as a primary dimension of test specifications, so that accessibility was woven into the fabric of the test rather than being added after the fact.

- **Amenable to Accommodations**

Even though items on universally designed assessments are accessible for most students, there are some students who continue to need accommodations. This essential element of universally designed assessment requires that the test is compatible with accommodations and a variety of widely-used adaptive equipment and assistive technology. (See Assessment Accommodations below.)

- **Simple, Clear, and Intuitive Instructions and Procedures**

Assessment instructions should be easy to understand, regardless of a student's experience, knowledge, language skills, or current concentration level. Knowledge questions that are posed within complex language can invalidate the test if students cannot understand how they are expected to respond to a question. To meet this guideline, directions and questions were prepared in simple, clear, and understandable language that underwent multiple reviews.

- **Maximum Readability and Comprehensibility**

A variety of guidelines exist to ensure that text is maximally readable and comprehensible. These features go beyond what is measured by readability formulas. Readability and comprehensibility are affected by many characteristics, including student background, sentence difficulty, text organization, and others. All of these features were considered as item text was developed.

- **Plain Language**

Plain language is a concept now being highlighted in research on assessments. Plain language has been defined as language that is straightforward and concise. The following strategies for editing text to produce plain language were used during the editing process of the new PSSA items.

- Reduction of excessive length
- Use of common words
- Avoidance of ambiguous words
- Avoidance of irregularly spelled words
- Avoidance of proper names
- Avoidance of inconsistent naming and graphic conventions
- Avoidance of unclear signals about how to direct attention

- **Maximum Legibility**

Legibility is the physical appearance of text, the way that the shapes of letters and numbers enable people to read text easily. Bias results when tests contain physical features that interfere with a student's focus on or understanding of the constructs that test items are intended to assess. A style guide (DRC, 2004) was utilized, with PDE approval, that included dimensions of style consistent with universal design.

GUIDELINES FOR UNIVERSALLY DESIGNED ITEMS

All test items written and reviewed adhered closely to the following guidelines for universal design. Item writers and reviewers used a checklist during the item development process to ensure that each aspect was attended to.

1. **Items measure what they are intended to measure.** Item writing training included assuring that writers and reviewers had a clear understanding of Pennsylvania's Academic Standards and the Assessment Anchors. During all phases of test development, items were presented with content-standard information to ensure that each item reflected the intended Assessment Anchor. Careful consideration of the content standards was important in determining which skills involved in responding to an item were extraneous and which were relevant to what was being tested. In certain types of items an additional skill is necessary, such as the mathematics test, which requires the student to read.
2. **Items respect the diversity of the assessment population.** To develop items that avoid content that might unfairly advantage or disadvantage any student subgroup, item writers, test developers, and reviewers were trained to write and review items for issues of bias, fairness, and sensitivity. Training also included an awareness of, and sensitivity to, issues of cultural and regional diversity.
3. **Items have a clear format for text.** Decisions about how items are presented to students must allow for maximum readability for all students. Appropriate fonts and point sizes were employed with minimal use of italics, which is far less legible and is read considerably more slowly than standard typeface. Captions, footnotes, keys, and legends were at least a 12-point size. Legibility was enhanced by sufficient spacing between letters, words, and lines. Blank space around paragraphs and between columns and staggered right margins were used.
4. **Stimuli and items have clear pictures and graphics.** When pictures and graphics were used, they were designed to provide essential information in a clear and uncluttered manner. Illustrations were placed directly next to the information to which they referred and labels were used where possible. Sufficient contrast between background and text, with minimal use of shading, increased readability for students with visual difficulties. Color was not used to convey important information.

1. **Items have concise and readable text.** Linguistic demands of stimuli and items can interfere with a student's ability to demonstrate knowledge of the construct being assessed. During item writing and review, the following guidelines were used.
 - Simple, clear, commonly-used words were used whenever possible.
 - Unnecessary words and extraneous text were omitted.
 - Vocabulary and sentence complexity were appropriate for the grade level assessed.
 - Technical terms and abbreviations were used only if related to the content being measured.
 - Definitions and examples were clear and understandable.
 - Idioms were avoided unless idiomatic speech was being assessed.
 - The questions to be answered were clearly identifiable.

5. **Items allow changes to format without changing meaning or difficulty.** A Braille version of the PSSA was available at each assessed grade. Attention was given to using items that allow for Braille. Specific accommodations were permitted such as signing to a student, the use of oral presentation under specified conditions, and the use of various assistive technologies. A Spanish version for the PSSA mathematics test was available for use by English Language Learners who would benefit from this accommodation.

6. **The test has an overall appearance that is clean and organized.** Images, pictures, and text that may not be necessary (e.g., sidebars, overlays, callout boxes, visual crowding, shading) and that could be potentially distracting to students were avoided. Also avoided were purely decorative features that did not serve a purpose. Information was organized in a manner consistent with an academic English framework with a left-right, top-bottom flow.

ASSESSMENT ACCOMMODATIONS

While universally designed assessments provide for participation of the widest range of students, many students require accommodations in order to participate in the regular assessment. Clearly, the intent of providing accommodations for students is to ensure that students are not unfairly disadvantaged during testing and that the accommodations used during instruction, if appropriate, are made available as students take the test. The literature related to assessment accommodations is still evolving and often focuses on state policies regulating accommodations rather than on providing empirical data that supports the reliability and validity of the use of accommodations. On a yearly basis, the Pennsylvania Department of Education examines accommodations policies and current research to ensure that valid, acceptable accommodations are available for students. An accommodations manual for the PSSA entitled *2005 Accommodations Guidelines* (PDE, October 2004) was developed for use with the 2005 PSSA. It is readily available through the PDE website at www.pde.state.us.

Chapter Five: Field-Test Procedures

EMBEDDED FIELD-TEST ITEMS

The 2005 PSSA test forms contained common items (identical on all forms) along with matrix/embedded field-test items. The common items consist of a set of “core” items taken by all students. The matrix and field-test items are embedded and are unique, in most instances, to a form. (That is, there are several instances in which a matrix or embedded field-test OE item appears on more than one form.) The purpose of administering field test items is to get statistics for new items which are then reviewed before becoming operational.

STATISTICAL ANALYSIS OF ITEM DATA

All field-tested items were analyzed statistically following conventional item analysis methods. For MC items the statistical indices known as traditional or classical item statistics included the point-biserial correlation (Pt Bis) for the correct and incorrect responses, percent correct (P-Value), and the percent responding to incorrect responses (distractors). For OE items the statistical indices included the item-total test correlation, the point-biserial correlation for each score level, percent in each score category or level, and the percent of non-scorable responses.

With any psychometric model, an item analysis is a search for unexpected results. In general, more capable students are expected to respond correctly to easy items and less capable students are expected to respond incorrectly to difficult items. If either of these situations does not occur, the item would be reviewed by DRC test development staff and committees of Pennsylvania educators to determine the nature of the problem and the characteristics of the students affected. The primary way of detecting such conditions is through the point-biserial correlation coefficient for dichotomous (MC) items and the item-total correlation for polytomous (OE) items. In each case the statistic will be positive if the total test mean score is higher for the students who respond correctly to MC items (or attain a higher OE item score) and negative when the reverse is true.

Item statistics are used as a means of detecting items that deserve closer scrutiny, rather than being a mechanism for automatic retention or rejection. Toward this end, a set of criteria was used as a screening tool to identify items that needed a closer review by committees of Pennsylvania educators. For a MC item to be flagged, the criteria included any of the following:

- Point-biserial correlation for the correct response of less than 0.25
- Point-biserial correlation for any incorrect response greater than 0.0
- Percent correct less than 30% or greater than 90%
- Percent responding to any incorrect responses greater than the percent correct

For an OE item to be flagged, the criteria included any of the following:

- Item-total correlation less than 0.40
- Point-biserial correlations not monotonically increasing over score categories
- Percent in any score category less than 10% or greater than 40%
- Non-scorable responses greater than 10 percent

Item analysis results for multiple-choice and open-ended field test items are presented in Appendices G through R.

DIFFERENTIAL ITEM FUNCTIONING

Bias can present itself in a variety of ways in test items: through the language, the format, the content, or the behaviors required. It can result from membership in a specific subpopulation or from factors correlated to the subpopulation. It can affect all members of the subpopulation, or it may affect only those in specific ranges of ability. Understanding how bias arises and how it presents itself has an impact on how best to detect and correct it.

LIMITATIONS OF STATISTICAL DETECTION

No statistical procedure should be used as a substitute for rigorous, hands-on reviews by content and bias specialists. The statistical results can help to organize the review so the effort is concentrated on the most problematic cases; however, no items should be automatically rejected simply because some statistical method flagged them or accepted because they were not flagged.

Statistical detection of item bias is at best an inexact science. There have been a variety of methods proposed for detecting bias, but no one statistic can be considered either necessary or sufficient. Different methods are more or less successful depending on the situation. No analysis can guarantee that a test is free of bias, but almost any thoughtful analysis will uncover the most flagrant problems.

A fundamental shortcoming of all of the statistical methods is that all are intrinsic to the test being evaluated. If a test, overall, is unbiased but with one or two biased items, any method will locate the problems. If, however, all items on the test are consistently biased against a subpopulation, a statistical analysis of the items will not be able to separate bias effects from true differences in achievement.

MANTEL-HAENZSEL PROCEDURE FOR DIFFERENTIAL ITEM FUNCTIONING

The *Mantel-Haenszel* procedure for detecting differential item functioning is the most commonly used technique in educational testing. It does not depend on the application or the fit of any specific measurement model. However, it does have significant philosophical overlap with the Rasch model since it uses total score to organize the analysis.

Differential item functioning is present when examinees of equal ability do not have the same chance of passing the item. If this inequity is associated with gender or ethnic groups, the item could be described as potentially biased.

The procedure as implemented by DRC contrasts a focal group with a reference group. While it makes no practical difference in the analysis which group is defined as the focal group, the protected class or the group most apt to be disadvantaged by a biased measurement is typically defined as the focal group. The Mantel-Haenszel (MH) statistic (Mantel & Haenszel, 1959) for each item is computed from a two-by-two-by-eight contingency table. It has two groups (focal and reference), two outcomes (right or wrong) and eight ability groupings. The ability groups are defined by the octiles of the score distribution for the total examinee populations.

The basic MH statistic is a single degree of freedom chi-square that compares the observed number in each cell to the expected number. The expected counts are computed to ensure that the analysis is not confounded with differences in the achievement level of the two groups.

For constructed response items, a comparable statistic is computed based on the standardized mean difference (SMD) (Dorans, Schmitt & Bleistein, 1992) computed as the differences in mean scores for the focal and reference groups, if both groups had the same score distribution.

To assist the review committees in interpreting the analyses, the items are assigned a severity code based on the magnitude of the MH statistic. Items classified as A+ or A- have no statistical indication of differential item functioning. Items classified as B+ or B- have some indication and may not require revision. Items classified as C+ or C- have strong evidence of a problem and should be reviewed and revised if they are to be used again. The plus sign indicates the item favors the focal group and a minus sign indicates the item disfavors the focal group.

Counts of the number of items from each grade and content area that were assigned to each severity code are shown below in Table 5-1.

Table 5-1. 2005 DIF Summary

2005 Multiple Choice Item DIF Summary							2005 Constructed Response Item DIF Summary						
Multiple Choice Item Male/Female DIF Counts							Constructed Response Item Male/Female DIF Counts						
Math	A	B-	B+	C-	C+	Total	Math	A	B-	B+	C-	C+	Total
5	155	0	3	0	2	160	5	4	8	0	2	1	15
8	147	3	10	0	0	160	8	5	2	0	3	0	10
11	145	3	7	1	4	160	11	3	3	4	6	0	16
Reading							Reading						
5	154	0	5	0	1	160	5	3	9	0	8	0	20
8	147	0	10	0	3	160	8	2	4	0	14	0	20
11	140	7	8	1	4	160	11	0	0	0	20	0	20
Multiple Choice Item White/Black DIF Counts							Constructed Response Item White/Black DIF Counts						
Math	A	B-	B+	C-	C+	Total	Math	A	B-	B+	C-	C+	Total
5	145	1	12	0	2	160	5	9	0	6	0	0	15
8	152	3	5	0	0	160	8	6	0	4	0	0	10
11	154	1	5	0	0	160	11	6	0	9	0	1	16
Reading							Reading						
5	150	1	6	0	3	160	5	12	6	2	0	0	20
8	141	3	9	1	6	160	8	16	3	1	0	0	20
11	149	1	8	0	2	160	11	13	6	0	1	0	20
Multiple Choice Item White/Hispanic DIF Counts							Constructed Response Item White/Hispanic DIF Counts						
Math	A	B-	B+	C-	C+	Total	Math	A	B-	B+	C-	C+	Total
5	147	2	8	0	3	160	5	14	0	1	0	0	15
8	148	1	10	0	1	160	8	9	0	1	0	0	10
11	154	2	4	0	0	160	11	10	0	6	0	0	16
Reading							Reading						
5	147	0	10	0	3	160	5	13	6	1	0	0	20
8	134	3	12	0	11	160	8	15	4	1	0	0	20
11	143	4	12	0	1	160	11	13	5	2	0	0	20
Multiple Choice Item White/Asian DIF Counts							Constructed Response Item White/Asian DIF Counts						
Math	A	B-	B+	C-	C+	Total	Math	A	B-	B+	C-	C+	Total
5	147	2	8	0	3	160	5	14	0	1	0	0	15
8	112	11	13	13	11	160	8	9	0	1	0	0	10
11	116	10	16	12	6	160	11	6	1	9	0	0	16
Reading							Reading						
5	109	10	17	5	19	160	5	8	11	1	0	0	20
8	108	7	13	8	24	160	8	12	8	0	0	0	20
11	116	13	16	2	13	160	11	7	12	0	1	0	20

REVIEW OF ITEMS WITH DATA

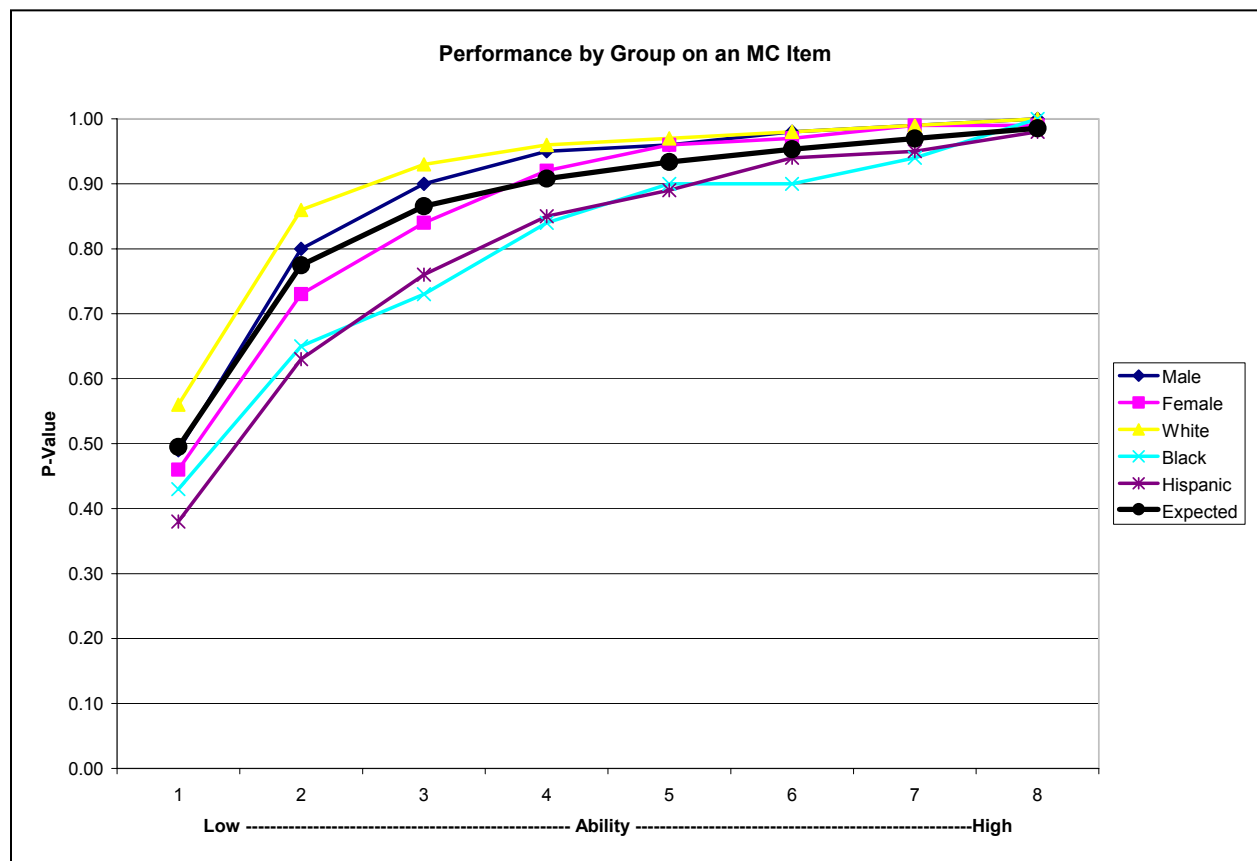
In the preceding section on Statistical Analysis of Item Data, it was stated that test development content-area specialists used certain statistics from item and DIF analyses of the 2004 field test to identify items for further review. Specific flagging criteria for this purpose were specified in the section above. Items not identified for this review were those that had good statistical characteristics and, consequently, regarded as statistically acceptable. Likewise, items of extremely poor statistical quality were easily regarded as unacceptable and needed no further review. However, there were some items, relatively few in number, that DRC content-area test development specialists deemed as needing further review by a committee of Pennsylvania educators. The intent was to capture all items that needed a closer look; thus the criteria

employed tended to over-identify rather than under-identify items.

The review of the items with data was conducted by subject-area content committees composed of 14 teachers and PDE staff for reading and 11 teachers and PDE staff for mathematics. The review took place on August 9 and 10, 2004. In this session committee members were first trained by Dr. Ronald Mead, DRC Senior Psychometrician, with regard to the statistical indices used in item evaluation. This was followed by a discussion with examples concerning reasons that an item might be retained regardless of the statistics. The committee review process involved a brief exploration of possible reasons for the statistical profile of an item (such as possible bias, grade appropriateness, instructional issues, etc.) and a decision regarding acceptance. DRC content-area test development specialists facilitated the review of the items.

A sample plot of a multiple-choice item showing possible (non-uniform) bias is shown in Figure 5.1.

Figure 5.1. Plot of a Multiple-Choice Item Showing Potential Bias



Chapter Six: Operational Forms Construction for 2005

FINAL SELECTION OF ITEMS AND 2005 PSSA FORMS CONSTRUCTION

When the final selection of items for the operational 2005 test was ready to begin, the candidate items that emerged from the Spring 2004 field test had undergone multiple reviews, including:

- Reviews by DRC and WestEd content-area test development specialists and curriculum specialists
- Formal review for adherence to principles of universal design by representatives from the National Center for Educational Outcomes (NCEO)
- Formal bias and sensitivity review by the Bias and Sensitivity Review Committee consisting of an expert, multi-ethnic group of men and women with members also having expertise with special needs students and English Language Learners.
- Formal review by the content committees consisting of Pennsylvania educators, including teachers as well as district personnel
- PDE review
- Content review by the PDE subject-area teacher advisory committee
- Item data review by members of the PDE subject-area teacher committees

The end product of the above process was an “item status” designation for each field-tested item. All items having an item status code of “Acceptable” were candidates to be selected for the 2005 PSSA. To have an item status code of “Acceptable” meant that the item met the following criteria:

- Appropriately aligned with its designated Assessment Anchor and sub-classifications
- Acceptable in terms of bias/sensitivity issues, including differential item functioning (for gender and race)
- Free of major psychometric flaws, including a special review of flagged items

Next, all relevant information regarding the acceptable items, including associated graphics, was entered into the IVAN system. From the IVAN system, Excel files were created for reading and mathematics at grades 5, 8, and 11. These files contained all relevant content codes and statistical characteristics. The IVAN system also created for each acceptable item a card displaying the item, any associated graphic, and all relevant content codes and item statistics for use by the content-area test development specialists and psychometric services staff.

DRC test development specialists reviewed the test design blueprint, including the number of items per strand for each content-area test. Special considerations, such as calculator use and manipulatives, were noted.

Psychometricians provided content-area test development specialists with an overview of the psychometric guidelines for forms construction, including guidelines for selecting linking items to link to previous test forms.

Senior DRC content-area test development specialists reviewed all items in the operational pool to make an initial selection for common (core) and matrix sections according to test blueprint

requirements and psychometric guidelines. No changes were made to any item since even slight alterations could affect how an item performs on subsequent testing.

For the common items, this meant that the combination of MC and OE items would yield the appropriate range of points while tapping an appropriate variety of the Assessment Anchors and related eligible content within each reporting category. Items selected in the first round were examined with regard to how well they went together as a set. Of particular concern were the following:

- One item providing cues as to the correct answer to another item
- Context redundancy (e.g., math items with a sports context)
- Presence of “clang” (distractors not unique from one another)
- Diversity of names and artwork for gender and ethnicity

The first round of items was then evaluated for statistical features such as an acceptable point-biserial correlation and whether the items, as a collection, had a correct answer distribution of approximately 25 percent in each of the four positions. Selected items that were psychometrically problematic resulted in a search by the senior reviewer for suitable replacements. At this point, the second round of items was analyzed. If necessary, this iterative process between content-based selections and statistical properties continued in an effort to reach the best possible balance.

The process for selecting operational matrix items was a little different. The chief consideration was that items in the matrix section of the various forms, together with the common items, would yield a greater overall pool of items from which reliable sub-category results could be generated for school-level reporting. Once again the cardinal principle was the selection of an appropriate number of items to properly cover the sub-categories. The subject-area test development specialist’s task was to distribute these items in matrix sections across the 16 forms so that the OE item and set of MC items assigned to a particular form would go well with one another and reflect the same content and statistical considerations as previously outlined. Additionally, the forms needed to display similar difficulty levels.

In the case of the linking items embedded in the matrix section of forms 17 to 20, content considerations remained relevant, together with statistical features, such as an acceptable point-biserial correlation and whether the items, as a collection, had an average logit value and a test characteristic curve approximating that of the previous year. Linking items were selected from the prior year’s PSSA.

Once the recommendations were finalized for the common/core, matrix, and linking items, they were submitted to PDE for review. Department staff provided feedback, which could be in the form of approval or recommendations for replacing certain items. Any item replacement was accomplished by the collective effort of the test development specialists, psychometricians, and PDE staff until final PDE approval.

SPECIAL FORMS USED IN THE 2005 PSSA

BRILLE AND LARGE PRINT

Students with visual impairments were able to respond to test materials that were available in either **Braille** or **large print**. At each grade level assessed, one form was selected for the creation of a Braille and a large-print edition. School district personnel ordered Braille or large-print assessment materials directly from the Pennsylvania Training and Technical Assistance Network (PaTTAN) in Harrisburg. They could also contact PaTTAN for technical assistance regarding students with visual impairments.

School personnel were directed to transcribe all student answers (MC and OE) into scannable answer documents exactly as the student responded. No alterations or corrections of student work were permitted, and the answer document had to have the identical form designation.

SPANISH TRANSLATED

Starting with the 2005 assessment, school personnel had the option of having their Spanish-speaking students who had been enrolled in schools in the United States for less than three years respond to a **Spanish** version of the PSSA for mathematics only. The original translation of the items and the *Directions for Test Administrators* was initialized by Second Language Testing Incorporated and completed by Data Recognition Corporation. After discussions with the PDE and Second Language Testing Incorporated, the mathematics sections of the test booklet were designed with a “side-by-side” format with the English text and Spanish translated text on facing pages. The original English text was on the right-hand side. The Spanish translated text was on the left-hand side.

The mathematics sections of the answer booklet were also presented in Spanish and English. Each open-ended item covered a total of 4 pages in the answer booklet. The first set of facing pages of a question was presented in Spanish. The second set of facing pages of an item was presented in the original English. Those students using this accommodated version of the mathematics assessment could write their answers on either the English language pages or on the translated Spanish language pages. Their answers could be written in English, Spanish, or a combination of both Spanish and English as all pages were evaluated and scored, with the highest possible score from those combinations recorded for the student.

674 students used a Spanish translated version in 2005.

Instructions for the appropriate use of these special forms are detailed in the *2005 Accommodations Guidelines* (PDE, 2004) available on the PDE website at www.pde.state.us.

Chapter Seven: Test Administration Procedures

TEST SESSIONS, TIMING, AND LAYOUT

The test window for the 2005 operational assessment was from April 4 through April 15, including make-ups. The reading and mathematics assessments consisted of six sections. Additional information concerning testing time and test layouts can be found in Chapter 3.

SHIPPING PACKAGING AND DELIVERY OF MATERIALS

There were two shipments sent out by DRC. Shipment one was delivered by March 7, 2005, and contained the *Handbook for Assessment Coordinators and Administrators* and the *Directions for Administration* for each grade tested at a school. Shipment two was delivered by March 21, 2005, and contained the administrative materials (e.g., return shipping labels and student precode labels) and secure materials (e.g., test booklets and answer booklets). DRC ensured that all assessment materials were assembled correctly prior to shipping. DRC Operations staff used the automated Operations Materials Management System (Ops MMS) to assign secure materials to a district at the time of ship out. This system used barcode technology to provide an automated quality check between items requested for a site and items shipped to a site. A shipment box manifest was produced for and placed in each box shipped. DRC Operations staff double checked all box contents with the box manifest prior to the box being sealed for shipment to ensure accurate delivery of materials. DRC Operations staff performed lot acceptance sampling on both shipments. Districts and schools were selected at random and examined for correct and complete packaging and labeling. This sampling represented a minimum of 10 percent of all shipping sites.

DRC used UPS and Manna Freight Systems, Inc. to ship materials to districts. DRC's materials management system, along with the systems of shippers, allowed DRC to track the items from the point of shipment from DRC's warehouse facility to receipt at the district, school, or testing site. All DRC shipping facilities, materials processing facilities, and storage facilities are secure. Access is restricted by security code. Non-DRC personnel are escorted by a DRC employee at all times. Only DRC inventory control personnel have access to stored secure materials. DRC employees are trained and made aware of the high level of security that is required.

DRC packed more than 1,029,288 assessment booklets, 62,624 manuals, and 100,647 non-secure materials for over 3,157 schools with 99.99% accuracy. DRC used Manna Freight and UPS to deliver 15,744 boxes of materials to the testing sites, and 99.9% of all the packages were delivered on time.

MATERIALS RETURN

The materials return window was April 19 – 22, 2005. DRC used Manna Freight for all returns, and less than 1% of testing sites experienced any difficulties with the return process.

TEST SECURITY MEASURES

Test security is essential to obtain reliable and valid scores for accountability purposes. The 2005 PSSA included a Test Security Affidavit that was to be signed and returned by every Principal or Director where testing materials were shipped. The purpose of the affidavit was to serve as a tool to document that the individuals responsible for administering the assessments both understood and acknowledged the importance of test security and accountability. The affidavit attested that all security measures were followed concerning the handling of secure materials. Some of the security measures included:

- The contents of the test were not discussed, disseminated, described, or otherwise revealed to anyone.
- The contents of the test were not kept, copied, or reproduced.
- All booklets were kept in a locked, secure storage area at both the district and school levels.

SAMPLE MANUALS

Copies of the *Handbook for Assessment Coordinators and Administrators* and the *Directions for Administration* can be found on the Pennsylvania Department of Education website at www.pde.state.pa.us.

ASSESSMENT ACCOMMODATIONS

An accommodations manual entitled *2005 Accommodations Guidelines* (PDE, October 2004) was developed for use with the 2005 PSSA and is available on the Pennsylvania Department of Education website at www.pde.state.pa.us. Additional information regarding assessment accommodations can be found in Chapter 4.

Chapter Eight: Processing and Scoring

RECEIPT OF MATERIALS

Receipt of PSSA test materials began on April 13, 2005, and concluded on April 29, 2005. DRC's Operations Material Management System (Ops MMS) was utilized to securely, accurately, and efficiently receive secure materials. This system features advanced automation and cutting-edge, barcode scanners. Captured data were organized into reports, which provided timely information with respect to suspected missing material.

The first step in the Ops MMS was the Box Receipt System.

When a shipment arrived at DRC, the boxes were removed from the carrier's truck and passed under a barcode reader, which read the barcode contained on the return label and identified the district and school. If the label could not be read automatically, a floor operator entered the information into the system manually. The data collected in this process were stored in the Ops MMS database. After the barcode data were captured, the boxes were placed on a pallet and assigned a corresponding pallet number. A "three way match" among the district box count, the carrier box count, and the DRC return box count was conducted to verify a box return accuracy rate of 100%.

Once the box receipt process was completed, the materials separation phase began. Warehouse personnel opened the district boxes and sorted the contents by grade, subject, and status (used/unused) into new boxes. Once filled, a sorted box's documents were loaded into an automated counter, which recorded a booklet count for each box. An on-demand DRC box label was produced that contained a description of each box's contents and quantity in both barcode and human-readable format. This count remained correlated to the box as an essential quality control step throughout secure booklet processing and provided a target number for all steps of the check-in process.

Once labeled, the sorted and counted boxes proceeded to booklet check-in. This system used streamfeeder automation to carry documents past oscillating scanners that captured data from up to two representative barcodes and stored it in the Ops MMS database.

The secure booklet check-in operator used a hand scanner to scan the counted box label. This procedure input material type and quantity parameters for what the Ops MMS should expect within a box. It then loaded the box's contents into the streamfeeder.

The documents were fed past oscillating scanners that captured either a security code or both a security code and a pre-code, depending upon material type. A human operator monitored an Ops MMS screen, which displayed scan errors, an ordered accounting of what was successfully scanned, and the document count for each box.

When all materials were scanned and the correct document count was reached, the box was sealed and placed on a pallet. If the correct document count was not reached, or if the operator encountered difficulties with material scanning, the box and its contents were delivered to an exception handling station for resolution.

This check-in process occurred immediately upon receipt of materials; therefore, DRC provided immediate feedback to districts and schools regarding any missing materials based on actual receipts versus expected receipts.

Upon completion of secure booklet check-in, DRC produced a Missing Materials Report that listed all schools in each participating district and any booklets not returned to DRC listed by school and security number.

After scannable materials were processed through Book Receipt, the materials became available to the DRC Document Processing Center Log-In staff for document log-in. Based on a pre-determined sampling and calibration plan, the staff prioritized answer documents using the following process:

A DRC scannable barcode batch header was scanned, and a batch number was assigned to each box of answer documents.

The DRC box label barcode was scanned into the system to link the box and answer documents to the newly created batch and to create a Batch Control Sheet.

The DRC box label barcode number, along with the number of answer documents in the box, was printed on the Batch Control Sheet for document tracking purposes. All documents that were linked to the box barcode were assigned to the batch number and tracked through all processing steps. As documents were processed, DRC staff dated and initialed the Batch Control Sheet to indicate that proper processing and controls were observed.

Before the answer documents were scanned, all batches went through a quality inspection to ensure batch integrity and correct document placement.

After a quality check in the DRC Document Processing Log-in area, the spines were cut off the scannable documents, and the pages were sent to DRC's Imaging and Scoring System.

SCANNING OF MATERIALS

DRC used its image scanning system to capture constructed-response items as images. These were then loaded into the image scoring system for both the handscoring of constructed-response items and for the capture of multiple-choice and demographic data.

DRC's image scanners were calibrated using a standard deck of scannable pages with 16 known levels of gray. On a predefined page location, the average pixel darkness was compared to the standard calibration to determine the level of gray. Marks with an average darkness level of 4 or above on a scale of 16 (0 through F) were determined to be valid responses, per industry standard. If multiple marks were read for a single item and the difference of the grayscale reads was greater than four levels, the lighter mark was discarded. If the multiple marks had fewer than four levels of grayscale difference, the response was flagged systematically and forwarded to an editor for resolution.

Customized scanning programs for all scannable documents were prepared to read the answer documents and to electronically format the scanned information. Before materials arrived, all image scanning programs went through a quality review process that included scanning of mock data from production booklets to ensure proper data collection.

DRC's image scanners read selected-response, demographic, and identification information. The image scanners also used barcode readers to read pre-printed barcodes from a label on the booklet.

The scannable documents were automatically fed into the image scanners where pre-defined processing criteria determined which fields were to be captured electronically. Constructed-response images were separated out for image-based scoring.

During scanning, a unique serial number was printed on each sheet of paper. This serial number was used for document integrity and to maintain sequencing within a batch of answer documents.

A monitor randomly displayed images, and the human operator adjusted or cleaned the scanner when the scanned image did not meet DRC's strict quality standards for image clarity.

All images passed through a process and a software clean-up program that despeckled, deskewed, and desmeared the images. A random sample of images was reviewed for image quality approval. If any document failed to meet image quality standards, the document was returned for rescanning.

Page scan verification was performed to ensure that all pre-defined portions of the answer documents were represented in their entirety in the image files. If a page was missing, the entire answer document was flagged for resolution.

After each batch was scanned, answer documents were processed through a computer-based edit program to detect potential errors as a result of smudges, multiple marks, and omits in predetermined fields. Marks that did not meet the pre-defined editing standards were routed to editors for resolution.

Experienced DRC Document Processing Center Editing staff reviewed all potential errors detected during scanning and made necessary corrections to the data file. The imaging system displayed each suspected error. The editing staff then inspected the image and made any needed corrections using the unique serial number printed on the document during scanning.

Upon completion of editing, quality control reports were run to ensure that all detected potential errors were reviewed again and a final disposition was determined.

Before batches of answer documents were extracted for scoring, a final edit was performed to ensure that all requirements for final processing were met. If a batch contained errors, it was flagged for further review before being extracted for scoring and reporting.

During this processing step, the actual number of documents scanned was compared to the number of answer documents assigned to the box during book receipt. Count discrepancies between book receipt and answer documents scanned were resolved at this time.

Once all requirements for final processing were met, the batch was released for scoring and student level processing.

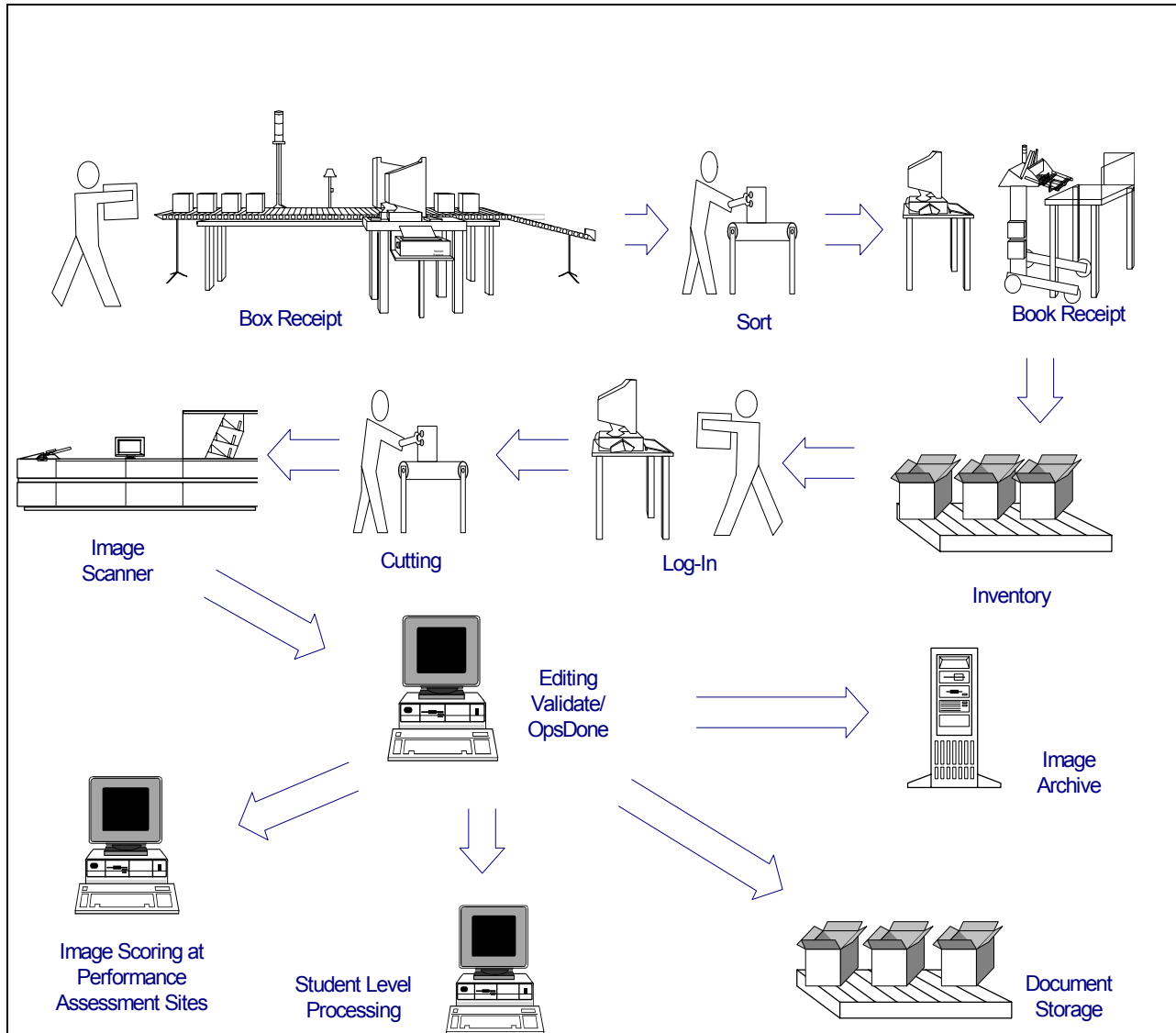
The following table shows the number of answer booklets received through booklet check in, the number of booklets that contained student responses that were scanned and scored, the number of test booklets received, and the total number of booklets received.

Table 8-1. Counts of Materials Received

	Answer Booklets Received	Used Answer Booklets Scanned	Test Booklets Received	Total Booklets Received
Grade 5	170,482	137,409	170,472	478,363
Grade 8	177,535	150,107	177,523	505,165
Grade 11	166,554	135,200	166,535	468,289

Figure 8.1 illustrates the production workflow for DRC’s Ops MMS and Image Scanning and Scoring System from receipt of materials through all processing of materials and the presentation of scanned images for scoring.

Figure 8.1. Workflow System



MATERIALS STORAGE

Upon completion of processing, student answer materials are boxed for security purposes and final storage where they can be retrieved quickly and efficiently using the following steps:

- Project-specific box labels were created containing unique customer and project information, materials type, batch number, pallet/box number, and the number of boxes for a given batch.
- Boxes were stacked on project-specific pallets that were labeled with a list of its contents and delivered to the Materials Distribution Center for final secure storage.
- Materials will be destroyed one year after contract year ends with PDE written approval.

SCORING MULTIPLE-CHOICE ITEMS

The scoring process included the scoring of multiple-choice items against the answer key and the aggregation of raw scores from the constructed responses. A student's raw score is the actual number of points achieved by the student for tested elements of an assessment. From the raw scores, the scale scores were calculated.

The student file was scored against the finalized and approved multiple-choice answer key. Items were scored as right, wrong, omitted, or double-gridded (more than one answer was bubbled for an item). Sections of the test were evaluated as a whole and an attempt status was determined for each student for each subject. The score program defined all data elements at the student level for reporting.

RANGEFINDING

After student answer documents were received and processed, DRC's Performance Assessment Services (PAS) staff began to assemble groups of responses that exemplified the different score points represented in the 0-3 item-specific scoring guidelines for math and the 0-4 item-specific scoring guidelines for reading. Papers were pulled for the grades 5, 8, and 11 common, matrix, and field-test items.

Once examples for all the score points were identified, sets were put together for each item. These sets were copied for use at rangefinding, held April 26–29, 2005, at the Hilton in Harrisburg. The rangefinding committees consisted of Pennsylvania educators, PDE staff members, DRC Test Development staff, and DRC Performance Assessment Services staff.

The joint session began with a review of the history of the 2005 assessment and then broke into mathematics and reading groups. An introduction to the new scoring guidelines was held and the subject committees then broke into grade level groups. Copies of the student example sets were presented to the committees, one item at a time. The committees reviewed and scored the student samples together to ensure that everyone was interpreting the scoring guidelines consistently. Committee members then went on to score responses independently and those scores were discussed until a consensus was reached. Only responses for which a good agreement rate was attained were used in training the readers. Discussions of the responses used the language of the scoring guidelines, assuring PDE and all involved that the score point examples clearly illustrated the specific requirements of each score level. DRC PAS staff made notes of how and why the committees arrived at score point decisions, and this information was used by the individual scoring directors in reader training.

DRC and PDE discussed scoring guideline edits that the committees suggested. Changes approved by PDE were then made by DRC Test Development and the scoring guidelines were used by PAS staff in the preparation of materials and training of readers.

READER RECRUITMENT/QUALIFICATIONS

DRC retains a number of experienced readers from year to year, and those readers made up approximately 60% of the reader pool (N=600) for 2005. To complete the reader staff for this project, DRC placed advertisements in local papers, minority publications, teacher newsletters, and at regional colleges and universities. Open houses were held and applications for reader positions were screened by the DRC recruiting staff. Candidates were personally interviewed and a mandatory, on-demand writing sample, plus a math sample for those applying to score

mathematics, were collected, along with references and proof of a four-year college degree. In this screening process, preference was given to candidates with previous experience scoring large-scale assessments and with degrees emphasizing expertise in mathematics and reading. Since readers had to have a strong content-specific background, the reader pool consisted of educators, writers, editors, and other professionals who were valued for their experience, but who were also required to set aside their own biases about student performance and accept the scoring standards.

At the request of PDE this year, DRC no longer accepted applicants or former readers who had a minimum of only two years of college experience. All readers on this assessment held at least a four-year degree.

LEADERSHIP RECRUITMENT/QUALIFICATIONS

Scoring directors and team leaders were chosen by the project director from a pool consisting of experienced individuals who were successful readers and leaders on previous DRC contracts and had strong backgrounds in scoring mathematics and/or reading. Those selected demonstrated organization, leadership, and management skills. The scoring directors and a majority of the team leaders had at least five years of leadership experience on the PSSA. All scoring directors, team leaders, and readers were required to sign confidentiality forms before any training or handling of secure materials began.

Each room of readers was assigned a scoring director. This individual was monitored by the project manager and project content coordinator and led the hand scoring for the duration of the project. The scoring director assisted in rangefinding, worked with supervisors to create training materials, conducted the team leader training, and was responsible for training the readers. The scoring director also made sure that reports were available and interpreted reports for the readers. The scoring director supervised the team leaders.

Team leaders assisted the scoring director with reader training and monitoring by working with their teams in small group discussions and answering individual questions that readers may not have felt comfortable asking in a large group. Once readers had qualified, the team leaders were responsible for maintaining the accuracy and workload of team members. The ongoing monitoring identified those readers who were having difficulty scoring accurately and resulted in the reader receiving one-on-one retraining or in pairing that reader with a stronger reader. This process corrected any inaccuracies in scoring and, if not, that reader was released from the project.

TRAINING

After rangefinding was completed, DRC's PAS staff compiled the approved scoring guidelines and the scored student examples from the committees into packets used for training the readers. Responses that were relevant in terms of the scoring concepts they illustrated were annotated for use in a scoring guide. The item-specific scoring guidelines served as the reader's constant reference. Readers were instructed how to apply the guidelines and were required to demonstrate a clear comprehension of each anchor set by performing well on the training materials that were presented for each grade and item. Training and qualifying sets consisted entirely of examples of student responses reviewed by the rangefinding committee.

Team leaders assisted the scoring directors with the training and monitoring of readers. The scoring director conducted the team leader training before the reader training. This training followed the same procedures as the reader training, but qualifying standards were more

stringent because of the responsibilities required of the team leaders. During their training, all materials were reviewed and discussed, and anticipated reader questions and concerns were addressed. Team leaders were required to annotate all of their training responses with the official annotations received from the content committee members at the rangefinding meetings. To facilitate scoring consistency, it was imperative that each team leader imparted the same rationale for each response that other team leaders used. Once the team leaders qualified, leadership responsibilities were reviewed and team assignments were given. A ratio of one team leader for each 8–10 readers ensured adequate monitoring of the readers.

The 2005 assessment included the opportunity for students to respond to the mathematics section in Spanish. The Scoring Director responsible for this was a bilingual Hispanic with a strong mathematics background who had also worked with the PSSA for over 7 years. All of the readers were bilingual and were hired specifically to score the Spanish portion of the assessment. They were required to meet the same stringent training and scoring standards that were set for the English responses.

Reader training began with the scoring director providing an intensive review of the scoring guidelines and anchor papers to all readers. Next, the readers “practiced” by independently scoring the responses in the training sets. Afterwards, the scoring director and team leaders led a thorough discussion of each set in either a small group or room-wide setting.

Once the scoring guidelines and all the training sets were discussed, readers were required to apply the scoring criteria by qualifying (i.e., scoring with acceptable agreement to the “true” scores) on at least one of the qualifying sets. Readers who failed to achieve the level of agreement determined by PDE were given additional training to acquire the highest degree of accuracy possible. Readers who did not perform at the required level of agreement by the end of the qualifying process were not allowed to score “live” student work and were released from the project.

HANDSCORING PROCESS

Student responses were scored independently and by multiple readers. All responses were read once with a 10% double read or read behind to ensure reliability. The 10% read behinds were randomly chosen by the imaging system at the item level. The PDE determined the required number of reads.

Readers scored the imaged student responses on PC monitors at the Harrisburg, Pennsylvania; Minnetonka, Minnesota; Cincinnati, Ohio; and Woodbury, Minnesota Scoring Centers. Readers were seated at tables with two imaging stations at each table. Image distribution was controlled, thus ensuring that they were sent to designated groups of readers qualified to score those items. Imaged student responses were electronically separated for routing to individual readers by item, and readers were only provided with student responses that they were qualified to score. Readers read each response and keyed in the scores.

To handle possible alerts (i.e., student responses indicating potential issues related to the student’s safety and well-being that may require attention at the state or local level), the imaging system allowed readers to forward responses needing attention to the scoring director. These alerts were reviewed by the project director, who then notified that student’s school and the PDE of this occurrence. However, PDE did not receive the student’s responses or any other identifying information on that student. Also, at no time did the reader know anything about the student’s personal identity.

Once handscoring was completed, PAS compiled anecdotal item reviews of the field-test prompts for all grade levels and all modes. This information was handed on to DRC Test Development.

QUALITY CONTROL

Reader accuracy was monitored throughout the scoring session by producing both daily and on-demand reports, ensuring that an acceptable level of scoring accuracy was maintained. Inter-reader reliability was tracked and monitored with multiple quality control reports that were reviewed by quality assurance analysts. These reports were generated at the handscoring center and were reviewed by the scoring directors, team leaders, project coordinators, and project directors. The following reports were used during the scoring of the constructed responses:

The Reader Monitor Report monitored how often readers were in exact agreement and ensured that an acceptable agreement rate was maintained. This report provided daily and cumulative exact and adjacent inter-reader agreement and the percentage of responses requiring resolution. (see Tables 8-2, 8-3, and 8-4)

The Score Point Distribution Report monitored the percentage of responses given each of the score points. For example, this daily and cumulative report showed how many 0s, 1s, 2s, 3s, and 4s a reader had given to all the responses he or she had scored at the time the report was produced. It also indicated the number of responses read by each reader so that production rates could be monitored.

The Item Status Report monitored the progress of handscoring. This report tracked each response and indicated the status (e.g., “needs second reading,” “complete”). This report ensured that all discrepancies were resolved by the end of the project.

The Response Read by Reader Report identified all responses scored by an individual reader. This report was useful if any responses needed rescoring because of reader drift.

The Read-Behind Log was used by the team leader/scoring director to monitor reader reliability. Student responses were randomly selected and team leaders read scored items from each team member. If the team leader disagreed with the reader’s score, remediation occurred. This proved to be a very effective type of feedback because it was done with “live” items scored by a particular reader.

Recalibration sets were used throughout the scoring sessions to monitor scoring by comparing each reader’s scores with the true scores and to refocus readers on Pennsylvania scoring standards. This check made sure there was no change in the scoring pattern as the project progressed. Readers failing to achieve a certain percent of agreement with the recalibration true scores were given additional training to achieve the highest degree of accuracy possible. Readers who were unable to recalibrate were released from the project. The procedure for creating and reading recalibration sets was similar to the one used for the training sets.

Tables 8-2, 8-3, and 8-4 show the exact and adjacent agreement rates of the readers for the common constructed responses of the math and reading items for grades 5, 8, and 11.

**Table 8–2. Inter-rater Agreement for
2005 Grade 5 PSSA Constructed Response Items**

	Common Item	% Exact Agreement	% Adjacent Agreement	% Exact + Adjacent Agreement
Reading [range of 1-4]	1	70	29	99
	2	66	33	99
	3	73	26	99
	4	68	31	99
Mathematics [range of 1-3]	1	72	27	99
	2	83	15	98
	3	68	30	98

**Table 8–3. Inter-rater Agreement for
2005 Grade 8 PSSA Constructed Response Items**

	Common Item	% Exact Agreement	% Adjacent Agreement	% Exact + Adjacent Agreement
Reading [range of 1-4]	1	75	25	100
	2	85	15	100
	3	81	18	99
	4	78	21	99
Mathematics [range of 1-3]	1	81	19	99
	2	75	25	100
	3	80	20	100

**Table 8–4. Inter-rater Agreement for
2005 Grade 11 PSSA Constructed Response Items**

	Common Item	% Exact Agreement	% Adjacent Agreement	% Exact + Adjacent Agreement
Reading [range of 1-4]	1	72	28	100
	2	68	30	98
	3	69	29	98
	4	79	20	99
Mathematics [range of 1-3]	1	80	18	98
	2	85	13	98
	3	86	14	100

MATCH-BACK RULES

In order to create a single student record in the central student file, it was necessary to establish match-back rules to combine separate student records into one student record. Match-back rules were applied to link multiple-choice and constructed responses. They were also used to merge student responses captured on different subjects and to link test results with student demographic information.

DATA EXCHANGE, STORAGE, AND RECOVERY POLICIES

DATA EXCHANGE PROCEDURES

The exchange of data between DRC, PDE, and other contractors is a critical and essential component in the success of the PSSA program. To support this process, DRC used the following data exchange procedures to ensure that all data files were successfully and accurately transferred.

- Files were posted to DRC’s secure Pennsylvania FTP site with a standard and logical folder structure.
- Standard file naming conventions were established and used.
- The information necessary to perform these quality control procedures accompanied each data exchange.

Data Exchange Quality Control Procedures

- **Record Count Check** – Confirm the expected record count and provide the record count in files sent and received.
- **File Count Check**– Confirm that the number of files sent and received matches the number of files expected.
- **Duplicate File Check** – Verify that duplicate files were not sent or received.
- **File Date** – Verify that the version of the file received matches the file creation date.
- **File Type Verification Check** – Verify that data sent and received matches the format expected (i.e. Excel, CSV, PDF, Text file [delimited/fixed field length]).
- **File Log** – A log of files sent and received will be maintained.
- **Data Validation** – Data checking procedures will be used to verify that the data is in the specified file layout and matches the expected values.

IMAGES

As part of the scanning process, the multi-page TIFF images were archived to tape before being separated into single page TIFFs and transmitted to the scoring centers. If any of the images were lost/deleted/corrupted at a scoring center, they could be restored from the archived multi-page TIFF images. In addition to archiving the images, the scoring center servers used RAID (Redundant Array of Independent Disks) 5 disk management technology to mirror the images to redundant disk drives. If a disk drive failed in a scoring center server, the images could be quickly restored from the redundant disk drive. In the event that the disk drive and the multi-page TIFF images could not be restored, the original documents would be rescanned. Images are stored for a PDE specified period.

DATA

Once a reader submitted a score for a constructed response item, the data was electronically transmitted to our SQL Servers. The log files documenting the changes were backed up hourly. Full back-ups were done nightly (Monday–Friday) and two additional full back-ups were run

over the weekend on the handscoring SQL Servers with the backup tapes being rotated off-site. All data is stored for a PDE specified period.

STORAGE

All physical servers are housed in secure server rooms in DRC's corporate headquarters in Maple Grove, or the Brooklyn Park or Woodbury locations. The server rooms are constructed of concrete floors, walls, and ceilings and designed to be fire and crush proof. They have fire suppression systems to minimize the effect of any fire started within the server room. Access to the server rooms is controlled through a card access system and is restricted to authorized technology support staff only. A log is maintained documenting each time a server room is entered, by whom, and for what purpose. In case of a disaster at any of the locations, another server can take over full operations.

DRC maintains backup servers that can be used to replace a failed server within 24 hours. Every server's configuration is documented in the event a rebuild is required. Each server has an assigned primary and secondary network analyst responsible for its operation.

The servers utilize load-sharing, redundant power supplies and implement RAID subsystems to minimize the effect of a failed disk. The server rooms all have Uninterruptible Power Supply (UPS) systems. For longer periods of power failure, an on-site diesel power generate will automatically start and supply needed power. The computing environment, both servers and communications hardware, will continue to function without interruption when the utility power is disrupted.

Two copies of complete system and data backup are created each weekend. One of these copies is stored in a secure room at the Maple Grove location. The second copy is stored in a secure room at the Woodbury location. These backups are stored indefinitely. Incremental backups of all files on the network are made each day. The incremental backups are kept for 6 weeks.

DRC utilizes a storage area network (SAN) for maximum speed, flexibility, and redundancy in our data storage solution. Servers are connected to the SAN via redundant connections to ensure minimum interruptions due to hardware failures. The SAN allows disk space to be reallocated with ease for availability to those applications or servers as needed. The SAN currently houses 13 Terabytes of storage and is expandable to 26 Terabytes.

Chapter Nine: Summary Demographic, Program, and Accommodation Data for the 2005 PSSA

ASSESSED STUDENTS

The total number of answer documents processed by grade level for the 2005 PSSA was 137,885, 150,635, and 135,506 for grades 5, 8, and 11, respectively. The number and percent of students with PSSA scores in reading and mathematics are shown in Table 9-1 below.

Assessed students include those from public schools who are required to participate as well as those from a small number of non-public schools that elected to participate. The number of non-public school students assessed was 611, 942, and 999 for grades 5, 8, and 11, respectively. Also included were home-schooled students (105, 154, and 30 students from grades 5, 8, and 11, respectively). As noted in the table, the vast majority of students had scores in both reading and mathematics.

Table 9-1. Students Assessed on the 2005 PSSA

	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Number of answer documents processed	137,885		150,635		135,506	
Students with reading scores	135,978	98.6	147,443	97.9	130,873	96.6
Students with mathematics scores	136,342	98.9	147,880	98.2	131,289	96.9
Students with both reading and mathematics scores	135,851	98.5	147,239	97.7	130,654	96.4
Students with a reading score or a mathematics score	136,469	99.0	148,084	98.3	131,508	97.0
Number processed but not assessed in either subject area	1,416		2,551		3,998	

As may be observed from Table 9-1, not all students were assessed. Although there are a variety of reasons for this, the major ones pertain to (1) excusal due to significant cognitive disability, (2) absenteeism, and (3) a situation in which there was a non-attempt on the part of the student and no exclusion code was marked by school personnel.

The number of students without scores for these three reasons is presented in Table 9-2. Students in an assessed grade who met each of the following criteria were excused from the PSSA: (1) had a significant cognitive disability, (2) required intensive instruction, (3) required adaptation and support to perform or participate meaningfully, (4) required substantial modification of the general education curriculum, (5) participation in the general education curriculum differed markedly in form and substance from that of other students (PDE, 2005, April, p.6). Instead, these students participated in the Pennsylvania Alternate System of Assessment (PASA). Student participation in the PASA included 761 at grade 5, 884 at grade 8, and 744 at grade 11. At grade 5 this accounted for 40% and 49% of non-assessed students in reading and mathematics, respectively. This diminished for grade 8, where participation in the PASA accounted for 28% and 32%, and for grade 11, 16% and 18%. Two categories of absenteeism, (1) extended absence from school that continued beyond the assessment window and (2) being absent without makeup for at least one section of a subject area, together accounted for 385, 1001, and 1,909 instances of students not receiving a reading score at grades 5, 8, and 11. The numbers were somewhat lower for mathematics, which were 304, 932, and 1,800, respectively.

Table 9-2. Counts of Students without Scores on the 2005 PSSA

Reason	Grade 5	Grade 8	Grade 11
Alternate Assessment (PASA)	761	884	744
Absent Reading	385	1001	1909
Absent Mathematics	304	932	1800
Non-Attempt Reading	540	974	1209
Non-Attempt Mathematics	268	608	905

COMPOSITION OF SAMPLE USED IN SUBSEQUENT TABLES

Rather than present data tables separately for reading and mathematics, redundancy was reduced by basing results on the group of students having a score in reading or in mathematics. Analyses were conducted using the individual student data file of July 25, 2005. Data for these analyses were obtained from coded information on the student answer document, although districts could elect to supply a portion of this information on a precode file prior to administering the PSSA. Because some file updates may occur subsequent to these analyses, there could be small differences in the counts although percentages likely differ by only a fraction of a percentage point.

DEMOGRAPHIC CHARACTERISTICS

School personnel supplied demographic, school program, and enrollment information regarding their students by coding the student answer document or by submitting a precode file prior to administration of the PSSA. Frequency data for each category is presented in Table 9-3 below. Percentages are based on all students with a score in reading or mathematics as shown at the bottom of the table.

Table 9-3. Demographic Characteristics of 2005 PSSA

Demographic or Educational Characteristic	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Gender						
Male	70,039	51.3	75,707	51.1	65,438	49.8
Female	66,018	48.4	71,943	48.6	64,994	49.4
Race/Ethnicity						
White non-Hispanic	100,842	73.9	113,046	76.3	105,452	80.2
Black/African American	22,367	16.4	22,367	15.1	16,035	12.2
Latino/Hispanic	8,536	6.3	8,138	5.5	5,127	3.9
Asian or Pacific Islander	3,206	2.4	3,067	2.1	3,228	2.5
Amer. Indian / Alaska	159	0.1	180	0.1	160	0.1
MultiRacial/Ethnic	855	0.6	598	0.4	352	0.3
Educational Category and Other Demographic Groups						
IEP (not gifted)	21,327	15.6	22,022	14.9	16,121	12.3
Gifted and has an IEP	7,640	5.6	9,177	6.2	7,237	5.5
504 Plan / Chapter 15	1,147	0.8	1,088	0.7	911	0.7
Title I	41,818	30.6	27,596	18.6	13,139	10.0
Title III	2,137	1.6	1,489	1.0	966	0.7
Migratory	569	0.4	468	0.3	268	0.2
LEP (not 1 st year of enrollment)	2,860	2.1	2,153	1.5	1,457	1.1
LEP in 1 st yr of enrollment	496	0.4	435	0.3	316	0.2
Exited ESL/bilingual program within last 2 yrs	872	0.6	634	0.4	438	0.3
Foreign Exchange Student	43	0.0	24	0.0	156	0.1
Economically Disadvantaged	50,452	37.0	48,295	32.6	29,986	22.8
Enrollment						
Enrolled in school of residence after Oct 1, 2004	5,476	4.0	5,315	3.6	3,486	2.7
Enrolled in district of residence after Oct 1, 2004	3,857	2.8	3,965	2.7	2,700	2.1
Became PA resident after Oct 1, 2004	1,225	0.9	1,085	0.7	607	0.5
Enrolled in district of residence after Oct 1, 2002	17,713	13.0	16,058	10.8	10,087	7.7
Homeless as defined by McKinney-Vento Act	225	0.2	178	0.1	73	0.1
Number Scored	136,469		148,084		131,508	

EDUCATION IN NON-TRADITIONAL SETTINGS

School personnel supplied information regarding a variety of non-traditional educational settings by coding the student answer document during administration of the PSSA. For each category the number and percent are presented for all students with a score in reading or mathematics. Table 9-4 reveals an incidence of less than one percent for the majority of these settings.

Table 9-4. Participation in 2005 PSSA by Students in Non-Traditional Settings

Non-Traditional Educational Settings	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Enrolled less than 90 inst. days	2,121	1.6	2,267	1.5	1,416	1.1
Court / agency placed	220	0.2	611	0.4	712	0.5
Homebound instruction	54	0.0	155	0.1	192	0.1
Spec. Educ. outside district	117	0.1	234	0.2	220	0.2
Learning Support centrally-housed pgm within district	1,887	1.4	1,247	0.8	771	0.6
Pgm other than Learn. Support centrally-housed within district	313	0.2	260	0.2	145	0.1
Approved. Pub. Alt. Educ. Pgm	125	0.1	996	0.7	1,085	0.8
Priv. Resid. Rehab. Institution	83	0.1	187	0.1	139	0.1
Approved. Private School	180	0.1	294	0.2	211	0.2
Interm. Unit program/classroom	559	0.4	888	0.6	787	0.6
Number Scored	136,469		148,084		131,508	

PARTICIPATION IN PSSA BY CAREER AND VOCATIONAL EDUCATION STUDENTS

School personnel supplied information regarding the participation of career and vocational education students by coding the student answer document. Table 9-5 reveals that the total number of students receiving a score on the PSSA who were enrolled in approved CTE or tech prep programs represents 10.9 percent of all grade 11 students assessed. Students enrolled in an approved CTE program represent 82.3 percent of all CTE students and 9.0 percent of all students assessed. Those enrolled in a tech prep program represent 17.7 percent of all CTE students and 1.9 percent of all students assessed.

Table 9-5. Participation in 2005 PSSA by Grade 11 Career and Vocational Education Students

Career and Vocational Education Categories	Number	Percent of CTE Students	Percent of Assessed Students
Student enrolled in CTE program approved by Career & Tech Education System	11,842	82.3	9.0
Student enrolled in a tech prep program	2,552	17.7	1.9
Number Scored	14,394	100	10.9

Table 9-6 provides data regarding the type of school setting in which the grade 11 students receive their career and vocational education. In addition, information regarding the program area is presented. In this table the totals are based on the summation of assessed students across type of school settings and across program areas. The associated percents relate to the total numbers of career and vocational education students with a score in reading or mathematics.

Table 9-6 School Setting and Program Area Categories of Grade 11 CTE Students

Student Attends:	Number	Percent
Career & Tech. School and receives all academic instruction there	2,905	20.3
Career & Tech. School for career technical instruction only	7,809	54.4
Home high school and receives career and technical instruction there	2,674	18.6
Charter school with a career and technical program	2	0.0
Career and Technical Center part time	953	6.6
Totals	14,343	100 %
Program Area Student is Enrolled in:		
Agriculture Education	613	4.3
Business Education	1,160	8.2
Diversified Occupations Education	444	3.1
Health Occupations Education	1,454	10.3
Marketing and Distributive Education	347	2.5
Occupational Home Economics Education	888	6.3
Trade and Industrial Education	8,210	58.0
Family and Consumer Services Education	329	2.3
Technology Education	688	4.9
Multiple Program Areas Coded	29	0.2
Totals	14,162	100 %

Some CTE students were also involved in the program known as *High Schools That Work* (HSTW). In 2005, a total of 7,367 students (5.6 percent of all students assessed and 51.2 percent of CTE students) were involved in HSTW.

PRIMARY DISABILITY OF IEP STUDENTS ASSESSED ON THE PSSA

School personnel supplied the primary disability information for those students who had an IEP (not gifted) by coding the student answer document or by submitting a precode file prior to the administration of the PSSA. In Table 9-7, for each disability category, the number and percent are presented for all students with a score in reading or mathematics who were coded with a disability. Consistent with previous years, specific learning disability is the category with the highest incidence of occurrence. With respect to all students with PSSA scores, the total number of students by grade level having a coded primary disability was 15.6 percent (grade 5), 14.8 percent (grade 8), and 12.2 percent (grade 11).

Table 9-7. Incidence of Primary Disabilities Among IEP Students Assessed on the 2005 PSSA

Primary Disability of Students Having an IEP	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Autism	386	1.8	251	1.1	109	0.7
Deaf-Blindness	4	0.0	5	0.0	6	0.0
Deafness	55	0.3	52	0.2	56	0.4
Emotional Disturbance	1,818	8.6	2,779	12.7	2,057	12.9
Hearing Impairment	152	0.7	129	0.6	133	0.8
Mental Retardation	1,126	5.3	1,351	6.2	1,048	6.6
Multiple Disabilities	82	0.4	69	0.3	62	0.4
Orthopedic Impairment	35	0.2	39	0.2	28	0.2
Other Health Impairment	843	4.0	743	3.4	379	2.4
Specific Learning Disability	13,196	62.2	15,750	71.9	11,859	74.2
Speech or Language Impairment	3,422	16.1	637	2.9	152	1.0
Traumatic Brain Injury	36	0.2	37	0.2	38	0.2
Visual Impairment incl. Blindness	73	0.3	67	0.3	63	0.4
Number Scored	21,228	100	21,909	100	15,990	100

TEST ACCOMMODATIONS PROVIDED

School personnel supplied information regarding accommodations of various types that a student may have received while taking the PSSA. These included changes in test environment, modified test formats, and special arrangements and assistive devices. The frequency with which these accommodations were utilized is summarized in Tables 9-8, 9-9, and 9-10. The values in the table are based on all students with a score in reading or mathematics.

CHANGES IN TEST ENVIRONMENT

There were seven categories of test environment changes on the 2005 PSSA. As depicted in Table 9-8, the three most common were for small group testing, testing in a separate room (in grade 5), and scheduled and requested extended time (in grade 5).

Table 9-8 Incidence of Changes in Test Environment on the 2005 PSSA

Type of Change in Test Environment	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Scheduled Ext. Time	14,423	10.6	10,456	7.1	6,005	4.6
Requested Ext. Time	6,713	4.9	8,787	5.9	5,434	4.1
Separate Room	12,321	9.0	7,352	5.0	5,232	4.0
Hospital/Home	38	0.0	56	0.0	60	0.0
Multiple Test Sessions	3,941	2.9	3,685	2.5	1,388	1.1
Small Group Testing	16,567	12.1	12,593	8.5	7,982	6.1
Other	555	0.4	356	0.2	179	0.1
Number Scored	136,469		148,084		131,508	

MODIFIED TEST FORMATS

There were seven categories of test format modifications in the 2005 PSSA. As depicted in Table 9-9, the actual frequencies are quite low, generally representing less than a tenth of one percent. The largest frequency occurred for the use of the Spanish mathematics version utilized for LEP students whose first language is Spanish and who have been enrolled in U.S. schools for fewer than three years (PDE, 2004, October, p.10). See Chapter 6 under the heading “Special Forms Used in the 2005 PSSA” for a description of the Spanish version of the PSSA mathematics sections.

Table 9-9 Incidence of Test Format Modifications on the 2005 PSSA

Type of Test Format Modification	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Braille Edition	10	0.0	12	0.0	8	0.0
Large Print Edition	80	0.1	67	0.0	43	0.0
Word Processor	45	0.0	27	0.0	20	0.0
Spanish Math Version	275	0.2	260	0.2	139	0.1
Signed Version	17	0.0	17	0.0	16	0.0
Audiotape	11	0.0	1	0.0	2	0.0
Other	22	0.0	25	0.0	11	0.0
Number Scored	136,469		148,084		131,508	

SPECIAL ARRANGEMENTS/ASSISTIVE DEVICES

On the 2005 PSSA, there were eleven possible categories of accommodations in the form of special arrangements or assistive devices. The frequency with which these accommodations were utilized is summarized in Table 9-10. At all grade levels the largest frequency corresponded to the accommodation in which the test administrator read the mathematics test aloud to the student. At grade 5, 6.9 percent of the students received this accommodation, which diminished to 1.9 percent at grade 8 and to less than one percent by grade 11.

Table 9-10. Incidence of Special Arrangements/Assistive Devices on the 2005 PSSA

Type of Arrangement or Assistive Device	Grade 5		Grade 8		Grade 11	
	Number	Percent	Number	Percent	Number	Percent
Braille Writer	5	0.0	6	0.0	5	0.0
Cranmer Abacus	2	0.0	1	0.0	1	0.0
Dictation to Proctor	767	0.6	134	0.1	52	0.0
Interpreter Signed Dir.	47	0.0	58	0.0	51	0.0
Magnification Devices	17	0.0	14	0.0	14	0.0
Student Marked	4,187	3.1	1,799	1.2	184	0.1
Test Adm Read Math	9,413	6.9	2,887	1.9	915	0.7
Test Adm Marked test	739	0.5	191	0.1	71	0.1
Typewriter, Word Proc,	81	0.1	96	0.1	73	0.1
Trans Dict LEP Student	341	0.2	525	0.4	349	0.3
Interp for LEP Student	363	0.3	361	0.2	152	0.1
Other	397	0.3	167	0.1	80	0.1
Number Scored	136,469		148,084		131,508	

THE INCIDENCE OF ACCOMMODATIONS AND IEP AND LEP STATUS

It is reasonable to expect that students with an IEP would receive the majority of accommodations; however, certain accommodations are specific to particular disabilities or to students classified as LEP. A cross-tabulation between IEP status and each of the 25 accommodations revealed a much greater incidence for the categorical students. This is most clearly depicted in the frequently occurring accommodations. To illustrate, several of these results were selected for display in Table 9-11. For the IEP analysis, the column headings refer to students classified as IEP (IEP) and non-IEP (NIEP). As an example, consider the grade 5 results. Note that 40.7 percent of students with an IEP received scheduled extended time as opposed to 5.0 percent of students without an IEP. Likewise, 42.5 percent of 5th grade IEP students were tested in a separate room, while just 2.8 percent of non-IEP students were. Of interest is the decrease of both accommodations between grade 5 and grades 8 and 11.

The analysis for students with limited English proficiency was based on the formation of a new variable by combining two separate items dealing with a student's LEP status. The two items differentiated between those LEP students who were in their first year of enrollment in U.S. schools and those who were not. The constructed variable, labeled LEPC in Table 9-11, was assigned a value of one if either of the two items was marked and was zero otherwise. Non-LEP is labeled as NLEPC. The accommodation of having the mathematics test read to the student occurred for 19.8 percent of 5th grade LEPC students versus 6.6 percent of non-LEPC students. A translation dictionary was used by 9.2 percent of 5th grade LEPC students and 0.0 percent of

non-LEPC students. Of interest is the increased use of a translation dictionary between grade 5 and grades 8 and 11 and the decrease in reading the mathematics test to the student.

Table 9-11. Percent of IEP and LEP Students Receiving Selected Accommodations

Accommodation Received	Grade 5		Grade 8		Grade 11	
	IEP	NIEP	IEP	NIEP	IEP	NIEP
Scheduled Extended Time	40.7	5.0	29.5	3.1	27.5	1.4
Test in Separate Room	42.5	2.8	27.2	1.1	28.1	0.6
Accommodation Received	LEPC	NLEPC	LEPC	NLEPC	LEPC	NLEPC
Mathematics Test Read	19.8	6.6	6.7	1.9	1.3	0.7
Translation Dictionary	9.2	0.0	19.0	0.0	15.7	0.1

Chapter Ten: Form Analysis and Item Calibration

TEST FORM STATISTICS

Table 10-1 contains an overview of the form-level data. Test length in total number of points (L), mean number of points received (P), standard deviations (SD), test reliability (R), and traditional standard error of measurement (SEM) are shown by grade and content area. These statistics are based on the total test using both multiple-choice and open-ended tasks for the common sections of each form. Detailed item-level statistics for the common items may be found in Appendices S through DD.

Test reliability can be thought of as the correlation between scores if the students could be tested twice with the same instrument without the second testing being affected by the first. It is computed as the ratio of the variance associated with *true scores* divided by the total variance. The total variance contains a component due to the variance in true scores and a component due to the imperfections in the measurement process.

$$1. R = \frac{\sigma_T^2}{\sigma_T^2 + \sigma_e^2} = \frac{\sigma_o^2 - \sigma_e^2}{\sigma_o^2}$$

The *standard error of measurement* is another indicator of precision. If everyone being tested had the same *true score*¹, there would still be some variation in observed scores due to imperfections in the measurement process. These may be random differences in attention during instruction or concentration during testing. The standard error is defined as the *standard deviation*² of the distribution of observed scores for students with identical true scores.

Generally speaking, reliabilities go up with an increase of test length and more heterogenous populations and reliabilities go down with shorter tests and more homogeneous populations.

Table 10-1. 2005 Summary of Common Item Performances

Grade	Reading					Mathematics				
	L	P	SD	R	SEM	L	P	SD	R	SEM
5	52	35.9	9.5	0.91	2.8	66	47.2	12.3	0.92	3.4
8	52	39.1	9.1	0.91	2.7	66	44.0	13.7	0.93	3.6
11	52	38.8	9.5	0.92	2.7	66	39.9	15.2	0.94	3.7

The standard deviation shown in the table is the standard deviation of observed scores. Assuming normally distributed scores, one would expect about two-thirds of the observations to be within one standard deviation of the mean. An estimate of the standard deviation of the true scores can be computed as $\hat{\sigma}_T = \sqrt{\sigma_x^2 - \sigma_x^2(1 - \rho_{xx})}$. As an example, for grade 5 mathematics, this would be $\sqrt{12.3^2 - 3.4^2} = 12$. The reliability can also be computed from these data. Again, using grade 5 mathematics as an example, $R = \frac{12.3^2 - 3.4^2}{12.3^2} = .91$

¹ True score is the score the person would receive if the measurement process were perfect.

² The standard deviation of a distribution is a measure of the dispersion of the observations. For the normal distribution about 16% of the observations are more than one standard deviation above the mean and the same percentage are more than one standard deviation below the mean. Using the data in table 10.1, about 68% of students with true scores of 70 will have observed scores between 65 and 75.

TRADITIONAL ITEM STATISTICS

Although all items had been reviewed for both content and statistical quality previously, a thorough item analysis was conducted in the Spring to ensure that the items and forms performed as expected. With any psychometric model, an item analysis is a search for unexpected results. For example, *more able*³ students are expected to pass easy items and *less able* students are expected to fail difficult items. If either of these situations does not occur, the item should be reviewed to determine the nature of the problem and the characteristics of the students affected.

The most familiar indices of item performance are *proportion correct* (P-Value) and item reliability. Reliability for dichotomous items is typically represented by the *point biserial correlation* coefficient. The correlation will have a positive value when the mean score of the students answering correctly is higher than the mean score of the students answering incorrectly. This indicates that students who did well on the total test tended to do well on this item. The index will take its maximum theoretical value of 1.0 if *every* student who answered the item correctly scored better on the test than *any* student who answered incorrectly⁴.

The P-Value is a subtler indicator of item quality. If there is a *more able* way to miss an item, the item will appear more difficult than the underlying problem. Conversely, if there is a *less able* way to pass the item, it may appear surprisingly easy.

Table 10-2 provides some distributional indices for the P-Value and point biserial correlation (PtBis) for the multiple-choice items on the common form in each grade and content area.

In general, with the mean P-Values in the range of 0.64 – 0.77, the PSSA was reasonably challenging to most students. With the average point biserial correlations near 0.49, the overall item quality was quite good.

³ Following the Rasch literature, *ability* is used in this discussion as a generic term for the construct that is being measured by the exam. *Competence, achievement, learning* and *status* are among the alternatives that are sometimes used, but are all subject to some degree of misinterpretation.

⁴ It is legitimate to view the point biserial correlations as standardized means. A positive value means students who chose that response had a higher mean score than the average student; a negative value means students who chose that response had a lower than average mean score.

Table 10-2. Common Form Statistics by Grade and Content for Multiple-Choice Items

		Reading		Mathematics	
Grade 5	P-Value	PtBis	P-Value	PtBis	
Average	.72	.51	.74	.46	
Minimum	.34	.27	.52	.30	
Maximum	.93	.64	.95	.60	
Median	.74	.52	.74	.48	
		Reading		Mathematics	
Grade 8	P-Value	PtBis	P-Value	PtBis	
Average	.77	.51	.68	.46	
Minimum	.53	.22	.47	.30	
Maximum	.96	.68	.86	.63	
Median	.78	.52	.69	.47	
		Reading		Mathematics	
Grade 11	P-Value	PtBis	P-Value	PtBis	
Average	.77	.50	.64	.49	
Minimum	.40	.27	.34	.32	
Maximum	.94	.63	.87	.61	
Median	.77	.51	.64	.50	

RASCH ITEM STATISTICS AND EQUATING

WINSTEPS[®] software implementing the Rasch model was used to obtain estimates of logit difficulties for both dichotomously- and polytomously-scored items. The parameters estimated for polytomous items are the *step difficulties* associated with the Masters Partial Credit model. This software is capable of handling all the item types currently in use with the PSSA. Winsteps version 3.54 was used for all calibrations. See Wright and Masters (1982) and Rasch (1960).

Rather than percent correct, the Rasch model expresses item difficulty (and student ability) in units referred to as *logits*. In the simplest case, a logit is a transformed P-Value with the average P-Value becoming a logit of zero. In this form, logits resemble z-scores or standard normal deviates; a very difficult item might have a logit of +4 and a very easy item might have a logit of -4. However, they have no formal relationship to the normal distribution.

The logit metric has several mathematical advantages over P-Values. It is an interval scale meaning two items with logits of zero and one are the *same distance* apart as items with logits of +3 and +4. Logits are not dependent on the ability level of the students. For example, a form can have a mean logit of zero, whether the average P-Value of the sample is 0.8 or 0.3.

The standard Rasch calibration procedure arbitrarily sets the mean difficulty of the items on any form at zero. Under normal circumstances where all students are administered a common set of items, any item with a P-Value lower than the average item on the form receives a positive logit

difficulty and any item with a P-Value higher than the average receives a negative logit. Consequently, the logits for any calibration, whether it is a third grade reading test or a high school science test, relate to an arbitrary origin defined by the center of items on that form. The average third grade reading item will have a logit of zero; the average high school science item will have a logit of zero. Logits for both item difficulties and student abilities are placed on the same scale and relate to the same mean item difficulty.

There are any number of other arbitrary choices that could be made for centering the item difficulties. Rather than using all the items, the origin could be defined by a subset. For the PSSA, all test forms in a particular grade and content area share a common block of items. The items on all forms can then be easily adjusted to a single (but still arbitrary) origin by defining the origin as the mean of the **common** items. With this done, the origins for all the forms will be statistically equal. Items on forms A and F that are equally difficult will now have *statistically* equal logit difficulties.

Note that test forms were spiraled within classrooms. In effect, students are administered the exact same set of common items but different field test or matrix sets. As a result, there are cross checks that are made to ensure the calibrations and links are reasonable across forms. The goal of spiraling is to achieve a *statistically equivalent* sample of students across forms with equal standard deviations and arbitrary means. Any differences in performance observed among the groups should be due only to differences in form difficulty. After linking, the mean of the logit abilities should be statistically equal for each sample of students.

Because of the equivalent samples, the common items should have the same P-Values regardless of which form and sample is being considered. Finally, for all items, both common and matrix, a plot of the relationship between the P-Value and the logit should fall along a single, curved line. Figure 10.1 through 10.6 plot this relationship. The curves are nearly linear in the center, but curve towards asymptotes of zero on the left and on the right.

Figure 10.1. 2005 Grade 5 Reading Logit Difficulties versus P-Values

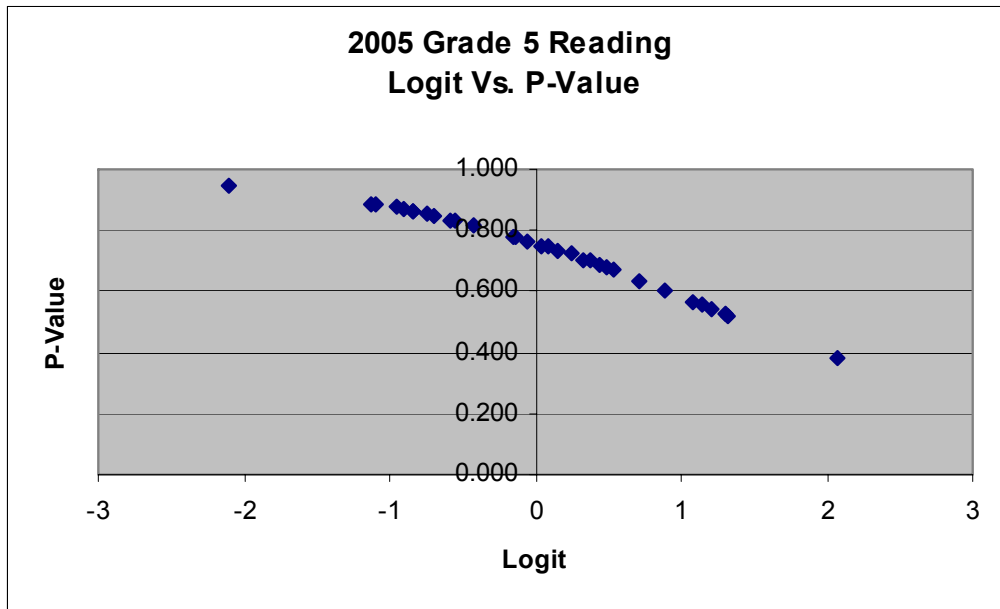


Figure 10.2. 2005 Grade 5 Mathematics Logit Difficulties versus P-Values

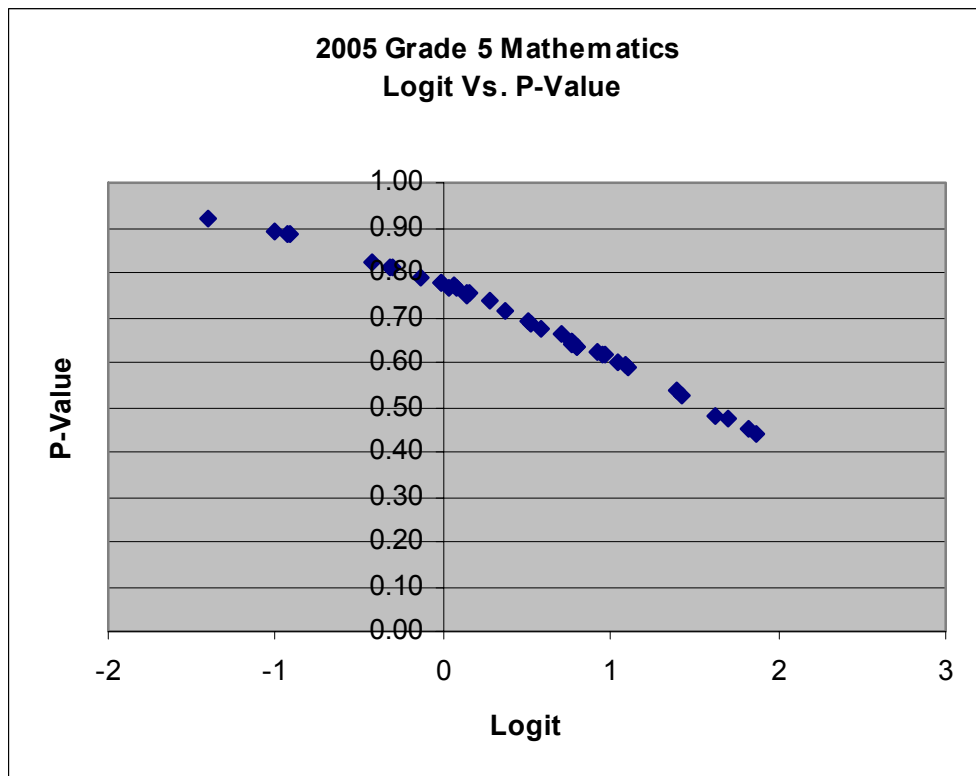


Figure 10.3. 2005 Grade 8 Reading Logit Difficulties versus P-Values

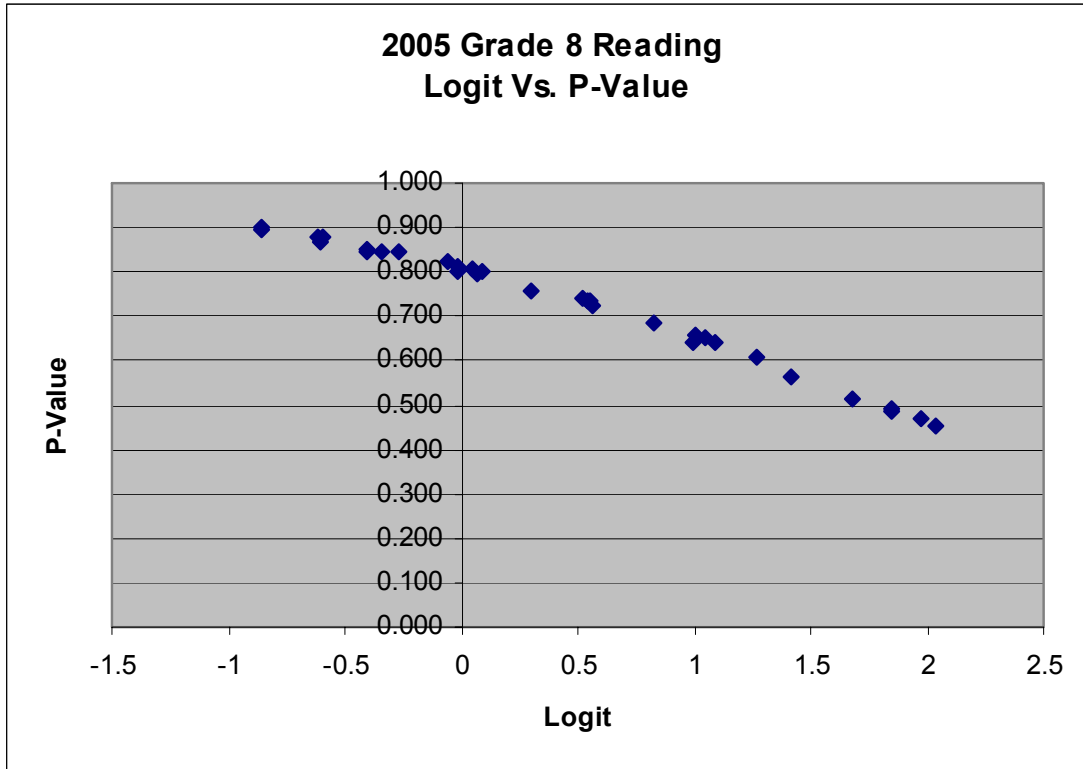


Figure 10.4. 2005 Grade 8 Mathematics Logit Difficulties versus P-Values

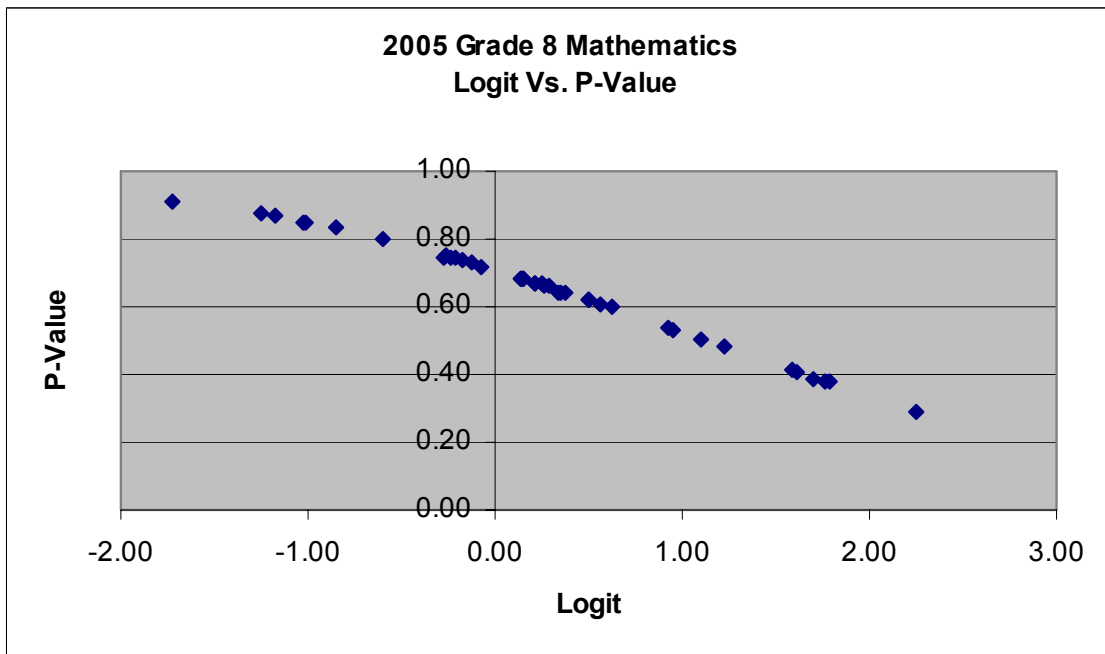


Figure 10.5. 2005 Grade 11 Reading Logit Difficulties versus P-Values

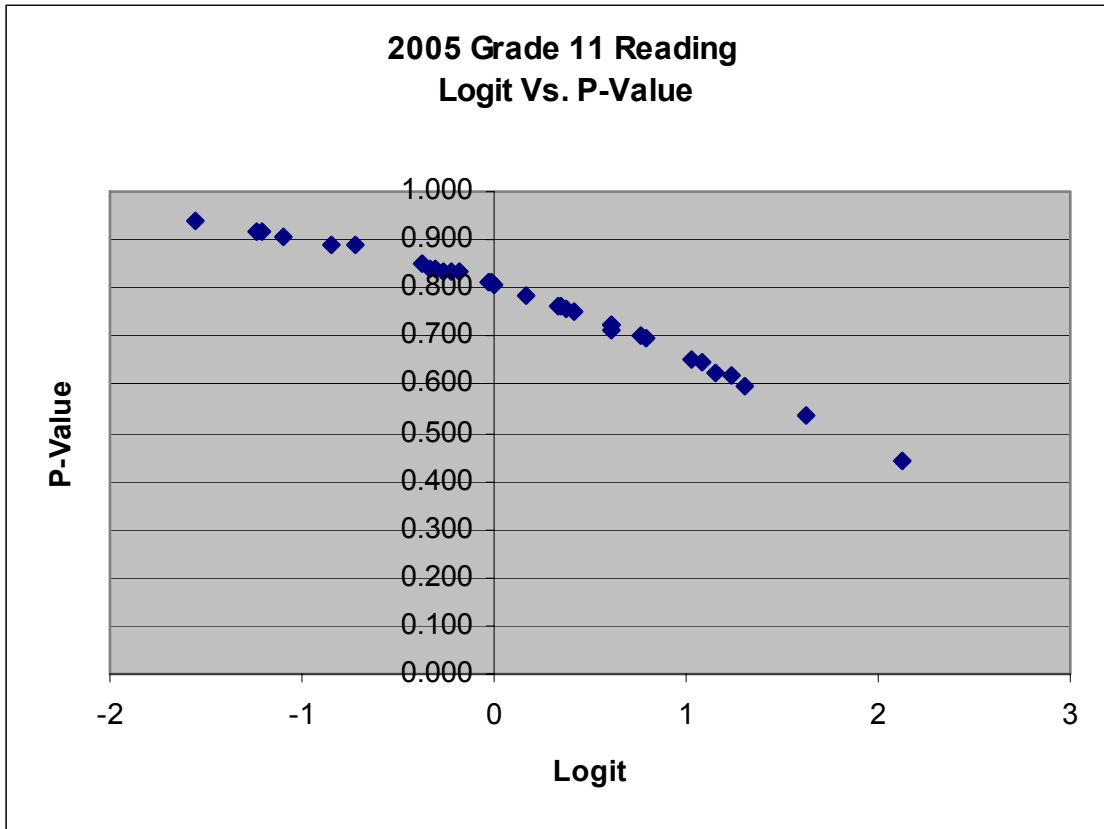
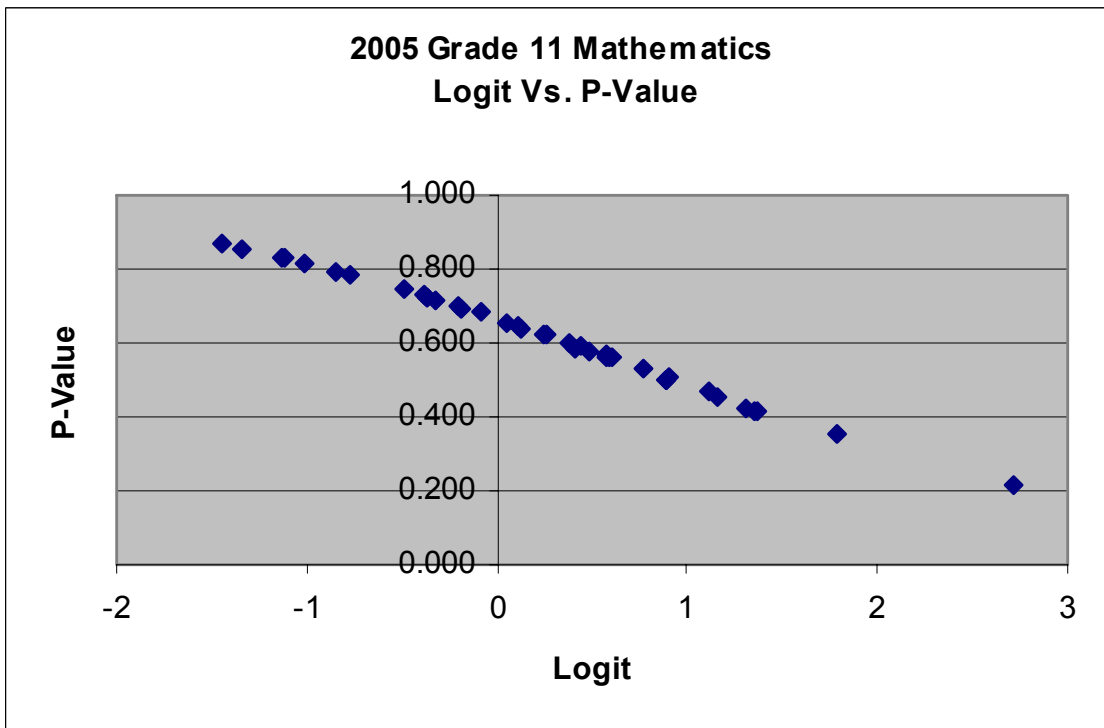


Figure 10.6. 2005 Grade 11 Mathematics Logit Difficulties versus P-Values



Below are the mean P-Values by form for the common multiple-choice items. The extent to which the mean P-values across forms are similar indicates that the student populations taking each form are of approximately of equal ability. This is the desired outcome of spiraling. This also allows for optimum analysis of the embedded field test items.

Form	Grade 5 Reading		Form	Grade 5 Mathematics	
	Mean P-Value	Std. Dev.		Mean P-Value	Std. Dev.
1 ⁵	0.701	0.132	1	0.723	0.105
2	0.723	0.136	2	0.741	0.105
3	0.725	0.135	3	0.743	0.107
4	0.726	0.134	4	0.743	0.107
5	0.726	0.135	5	0.746	0.104
6	0.725	0.134	6	0.744	0.106
7	0.725	0.137	7	0.745	0.106
8	0.727	0.136	8	0.748	0.105
9	0.728	0.136	9	0.749	0.105
10	0.723	0.134	10	0.747	0.103
11	0.726	0.134	11	0.742	0.106
12	0.726	0.135	12	0.745	0.106
13	0.729	0.137	13	0.750	0.105
14	0.730	0.135	14	0.745	0.106
15	0.731	0.135	15	0.752	0.104
16	0.734	0.134	16	0.752	0.104
17	0.725	0.136	17	0.745	0.104
18	0.730	0.135	18	0.749	0.102
19	0.726	0.136	19	0.747	0.105
20	0.729	0.134	20	0.748	0.102
Avg	0.726	0.135	Avg	0.745	0.105

⁵ For both reading and mathematics in all grades, form 1 was used to generate modified versions (e.g., Large Print and Braille) of the common form; thus, the mean P-Values for these forms are somewhat lower.

Grade 8 Reading			Grade 8 Mathematics		
Form	Mean P-Value	Std. Dev.	Form	Mean P-Value	Std. Dev.
1	0.759	0.103	1	0.668	0.104
2	0.777	0.108	2	0.688	0.110
3	0.777	0.109	3	0.687	0.106
4	0.781	0.107	4	0.690	0.105
5	0.779	0.105	5	0.686	0.106
6	0.780	0.105	6	0.690	0.107
7	0.777	0.107	7	0.687	0.107
8	0.778	0.110	8	0.687	0.105
9	0.780	0.108	9	0.695	0.105
10	0.778	0.106	10	0.688	0.105
11	0.780	0.106	11	0.685	0.107
12	0.778	0.107	12	0.689	0.108
13	0.778	0.108	13	0.691	0.106
14	0.781	0.106	14	0.691	0.105
15	0.779	0.107	15	0.688	0.107
16	0.777	0.106	16	0.684	0.108
17	0.775	0.109	17	0.686	0.107
18	0.780	0.109	18	0.689	0.107
19	0.780	0.106	19	0.689	0.107
20	0.777	0.106	20	0.688	0.106
Avg	0.777	0.107	Avg	0.687	0.106

Grade 11 Reading			Grade 11 Mathematics		
Form	Mean P-Value	Std. Dev.	Form	Mean P-Value	Std. Dev.
1 ⁶	0.759	0.113	1	0.633	0.124
2	0.772	0.117	2	0.644	0.127
3	0.771	0.115	3	0.640	0.127
4	0.772	0.114	4	0.642	0.126
5	0.775	0.115	5	0.644	0.127
6	0.774	0.114	6	0.642	0.126
7	0.773	0.116	7	0.641	0.128
8	0.776	0.114	8	0.646	0.125
9	0.773	0.115	9	0.642	0.127
10	0.769	0.116	10	0.640	0.127
11	0.772	0.116	11	0.646	0.126
12	0.774	0.116	12	0.640	0.126
13	0.774	0.116	13	0.645	0.127
14	0.773	0.116	14	0.646	0.126
15	0.775	0.115	15	0.642	0.125
16	0.773	0.116	16	0.643	0.125
17	0.770	0.117	17	0.641	0.126
18	0.773	0.116	18	0.640	0.127
19	0.773	0.115	19	0.644	0.126
20	0.770	0.117	20	0.641	0.127
Avg	0.772	0.115	Avg	0.642	0.126

⁶ For both reading and mathematics in all grades, form 1 was used to generate modified versions (e.g., Large Print and Braille) of the common form; thus, the mean P-Values for these forms are somewhat lower.

Chapter Eleven: Linking

Rasch model linking of the exam for the current year to the exam for previous years is just as straightforward as linking forms within year. However, the student samples are not equivalent across years and identical items can have different properties in different years because of changes in the item's context or changes in the students' experiences. Consequently, between-year linking requires more scrutiny than within-year linking.

The link between years is based on items that are used in both years in approximately the same context. The *same context* in this situation means the items are not altered in any way, they appear in about the same position in the booklet, and they are administered at about the same time of year.

A transitional matrix-to-matrix section linking plan was used to measure growth from 2004 to 2005. This was based on the recommendation of the national technical advisory committee in collaboration with Department and DRC staff. This link was accomplished via intact matrix sections in forms 17 through 20 that were administered in the same context as they were in 2004. Item level statistics for the linking items can be found in Appendix HH.

For *within-year* linking, the procedure is to link forms via the common section. The result is a bank of items with comparable logit difficulties. For *between-year* linking, the procedure is to link the current year's bank to the previous years' banks.

- (1) Overlapping items are identified.
- (2) The logit difficulties are adjusted (of all items) in the current year's bank so that the mean logit difficulty for the overlapping items is equal to the mean logit difficulty for the same items in the previous year's bank.
- (3) The validity of the link is assessed by identifying any items that do not maintain their relative position across years.

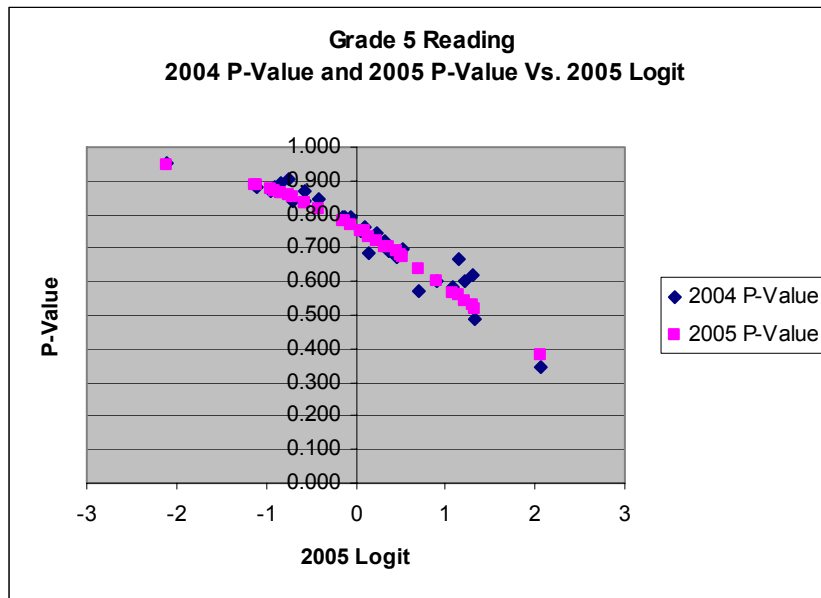
Since the equating process forces the current logit difficulties for the linking items to have the same mean logit difficulty as the previous logit difficulties for these same items, the 2005 logits will be *displaced* from their estimates obtained from an independent calibration. The size of the displacements reflect any difference in the origins. The variation among them corresponds to the approximate size of the standard errors for the items.

Plotting P-Values against logit difficulties across year is not as reliable as it is within year. Using spiraled forms within year, a given P-Value will translate to a given logit regardless of the form it is used on, within the limits of statistical precision. Within year, the P-Value-to-logit plot should be a single curved line; between years, the plot could have separate lines for each year. The difference between the two lines is a reflection of the adjustment (positive or negative) that is required to equate the two item banks. The following sections show the equating results by grade and subject. The number of between-year linking items on the 2005 operational assessment was 32 for reading and 40 for mathematics.

GRADE 5: READING

In Figure 11.1, the two lines sloping downward toward the right relate item P-Values for the two years to the 2005 logit difficulties. They show the curvilinear relationship required by the model with low P-Values being translated into high logit difficulties and high P-Values into low difficulties. The smoothness of this line indicates good agreement among the forms. Because the forms were spiraled within classroom, the samples generated are randomly equivalent and one would expect the same P-Value to translate into the same logit. This is the case with these data.

Figure 11.1



In Figure 11.2, the diagonal line, rising from left to right, shows the item P-Values for the two years (the clusters of points reflect items which were used on multiple matrix forms). One would expect the relationship to form a straight line with slope one. The extent to which the line does not pass through the origin indicates a change in student performance.

Figure 11.2

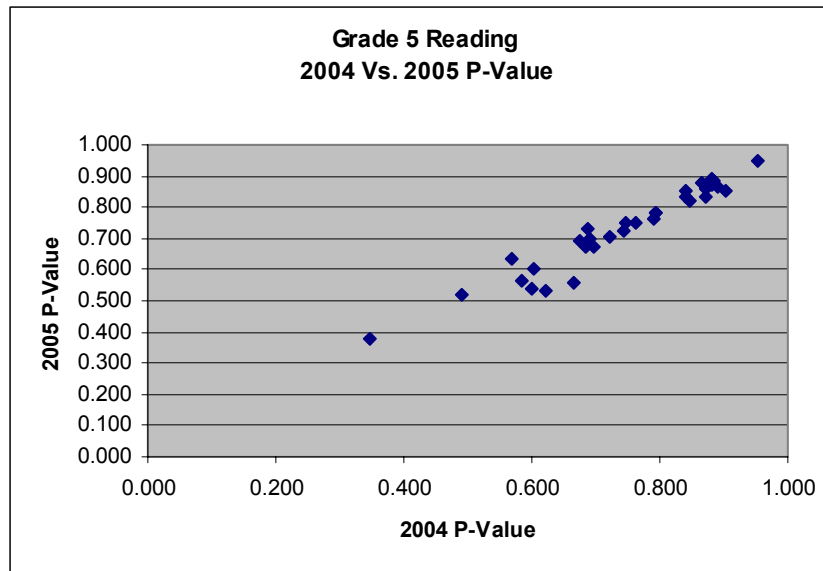
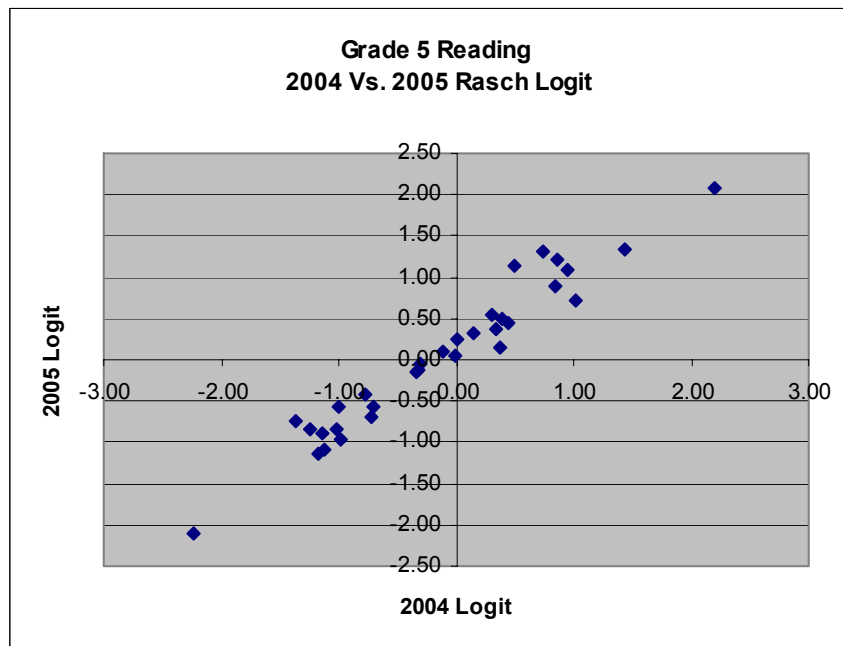


Figure 11.3 below uses the same data as Figure 11.1 and 11.2, but focuses entirely on logit difficulties. It shows more clearly the relationship between 2004 logits and 2005 logits. There is a well-defined line with a few outliers.

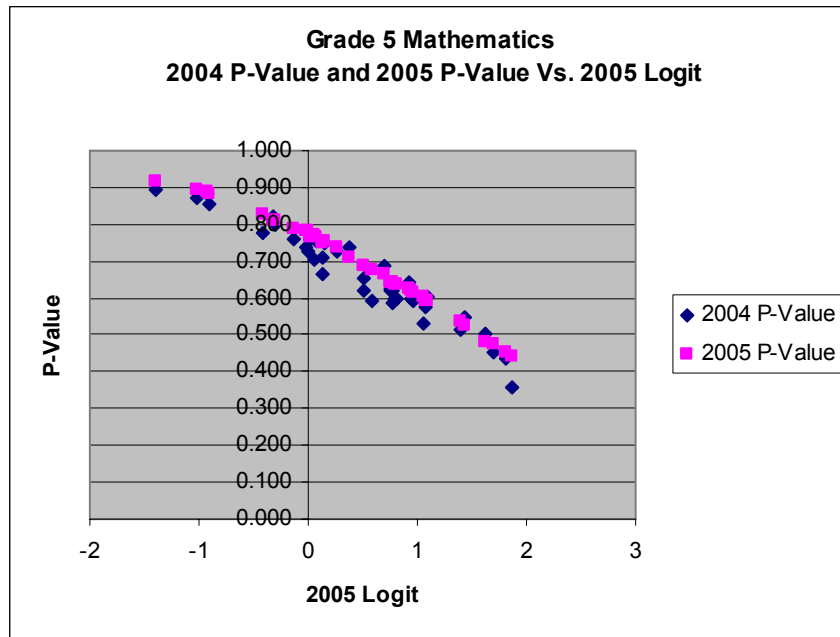
Figure 11.3



GRADE 5: MATHEMATICS

In Figure 11.4, the two lines sloping downward toward the right relate item P-Values for the two years to the 2005 logit difficulties. They show the curvilinear relationship required by the model with low P-Values being translated into high logit difficulties and high P-Values into low difficulties. The smoothness of this line indicates good agreement among the forms. Because the forms were spiraled within classroom, the samples generated are randomly equivalent and one would expect the same P-Value to translate into the same logit. This was the case with these data.

Figure 11.4



The diagonal line, rising from left to right in Figure 11.5, shows the item P-Values in the two years. One would expect the relationship to form a straight line with slope one. The extent to which the line does not pass through the origin indicates a change in student performance.

Figure 11.5

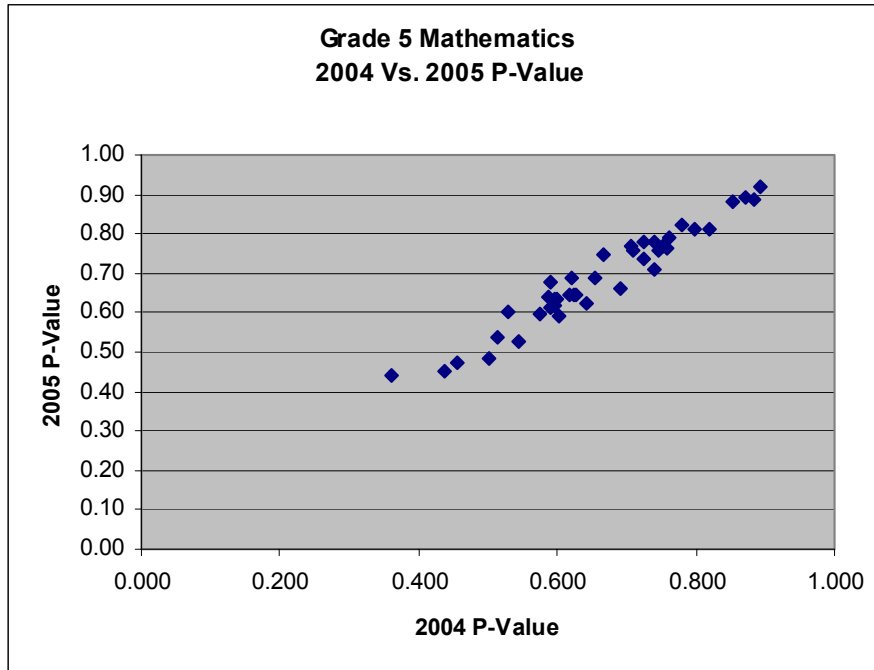
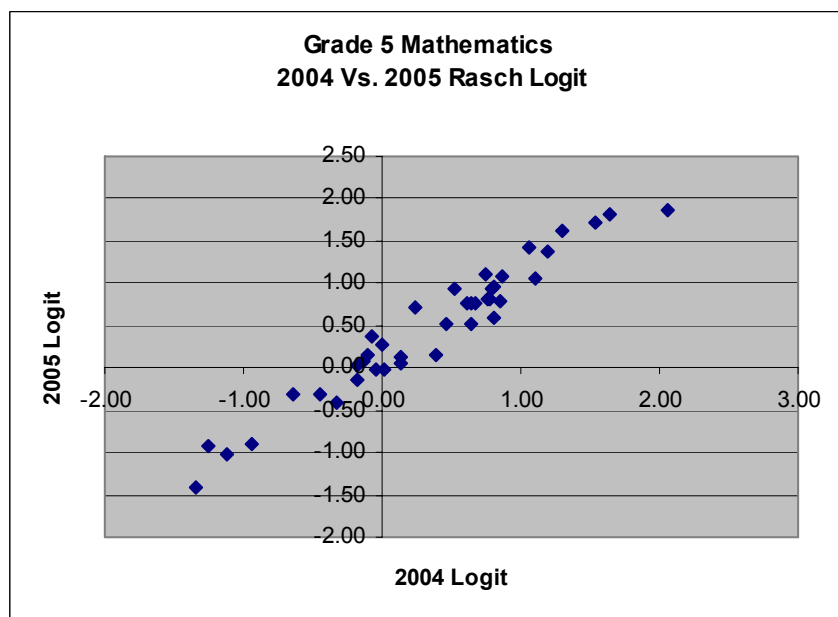


Figure 11.6 below uses the same data as Figure 11.4 and 11.5, but focuses entirely on logit difficulties. It shows more clearly the relationship between 2004 logits and 2005 logits. There is a well-defined line with few outliers.

Figure 11.6



GRADES 8 AND 11

Similar cross-year linking analyses were performed for grades 8 and 11 and are shown in the plots below. The results were similar to grade 5 in the amount of noise present in the links.

Figure 11.7

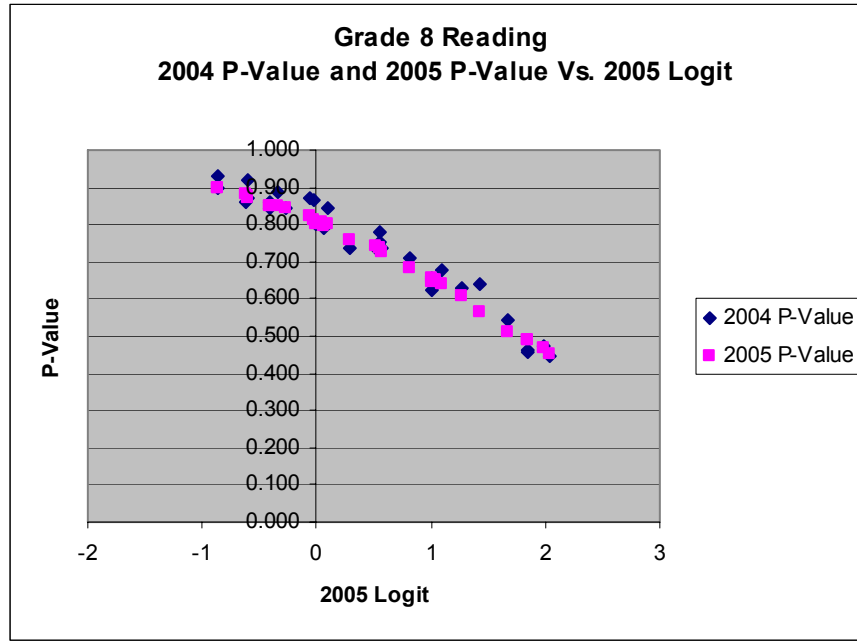


Figure 11.8

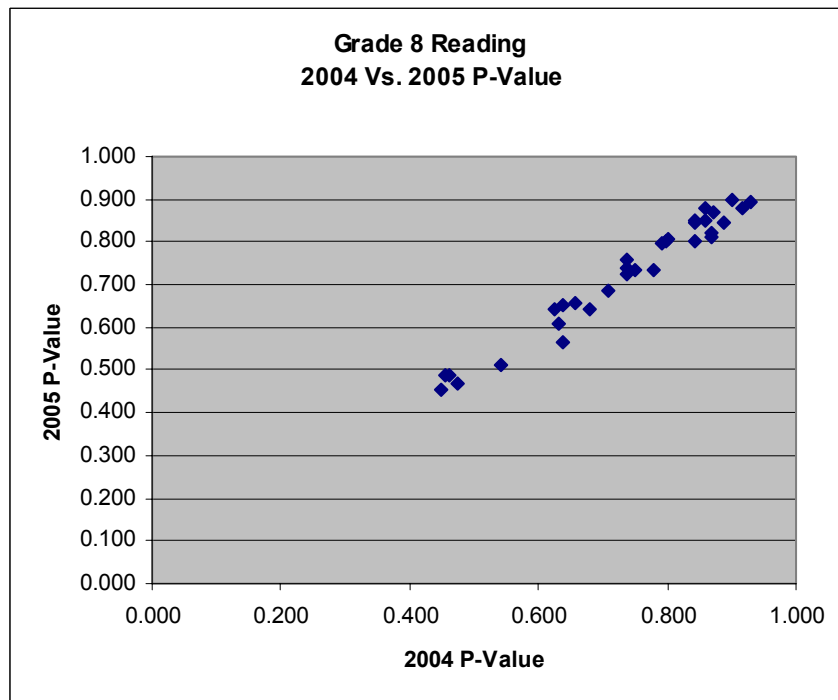


Figure 11.9

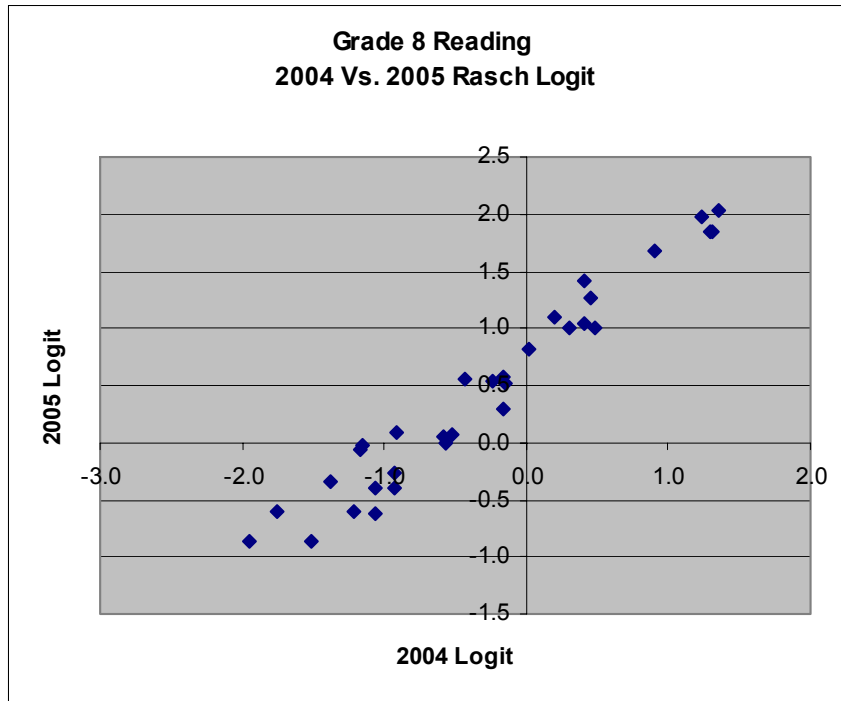


Figure 11.10

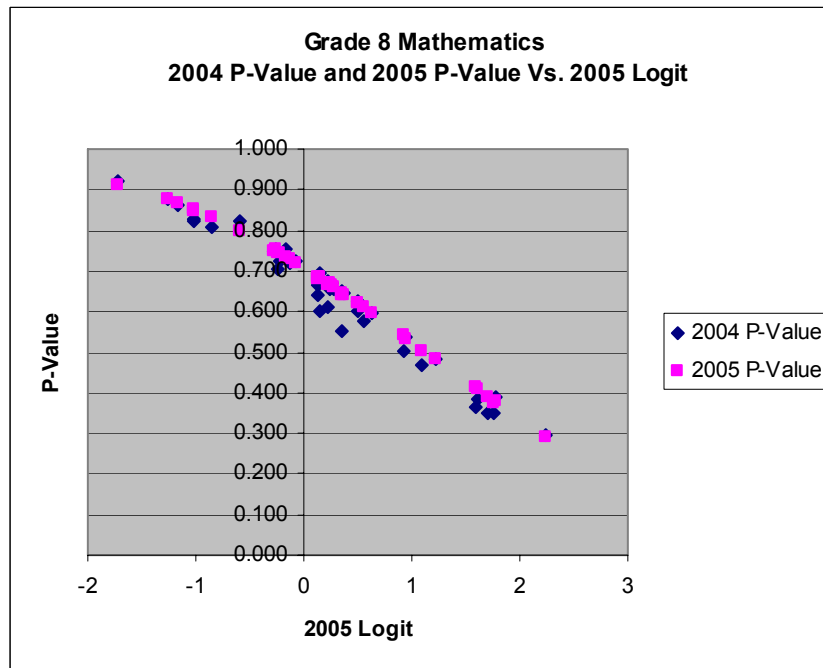


Figure 11.11

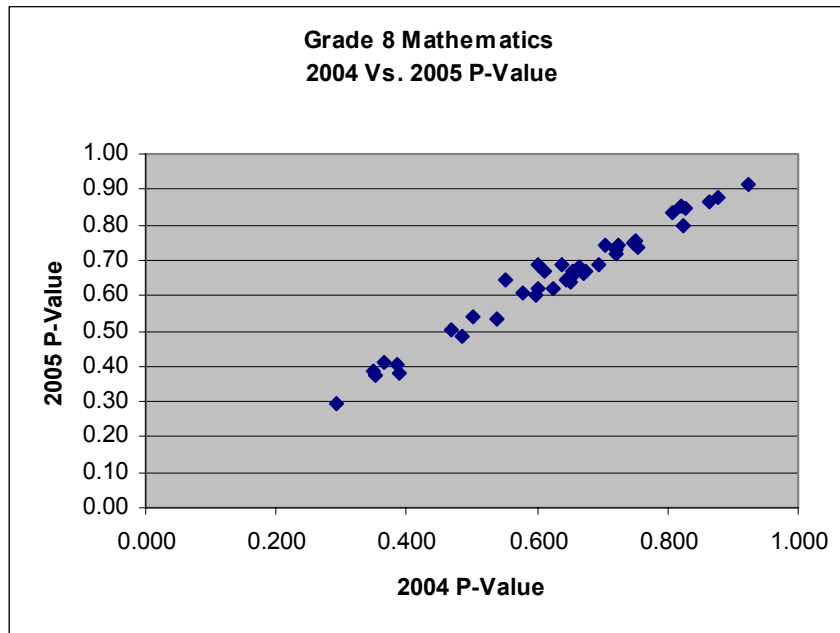


Figure 11.12

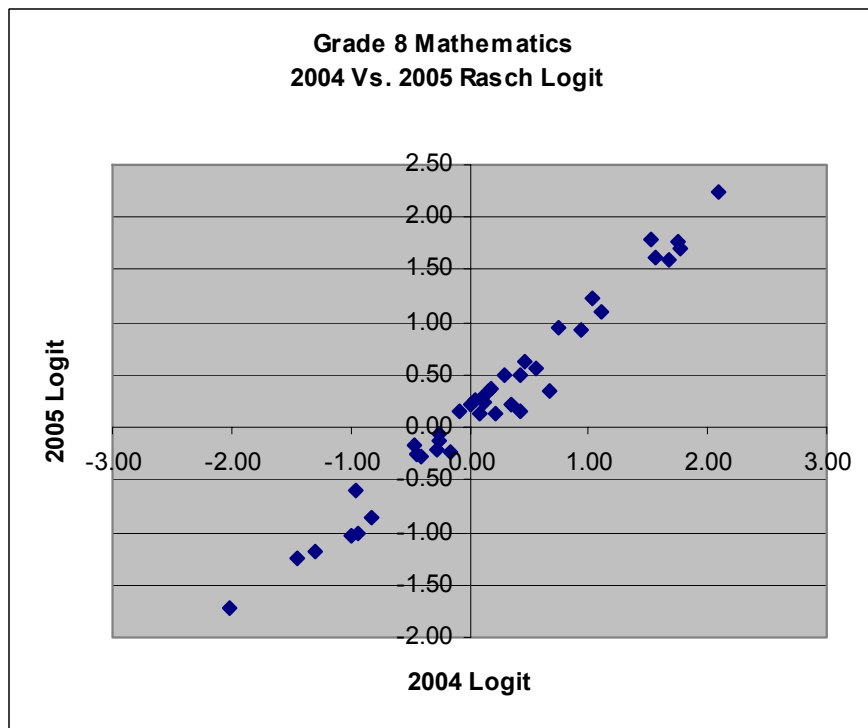


Figure 11.13

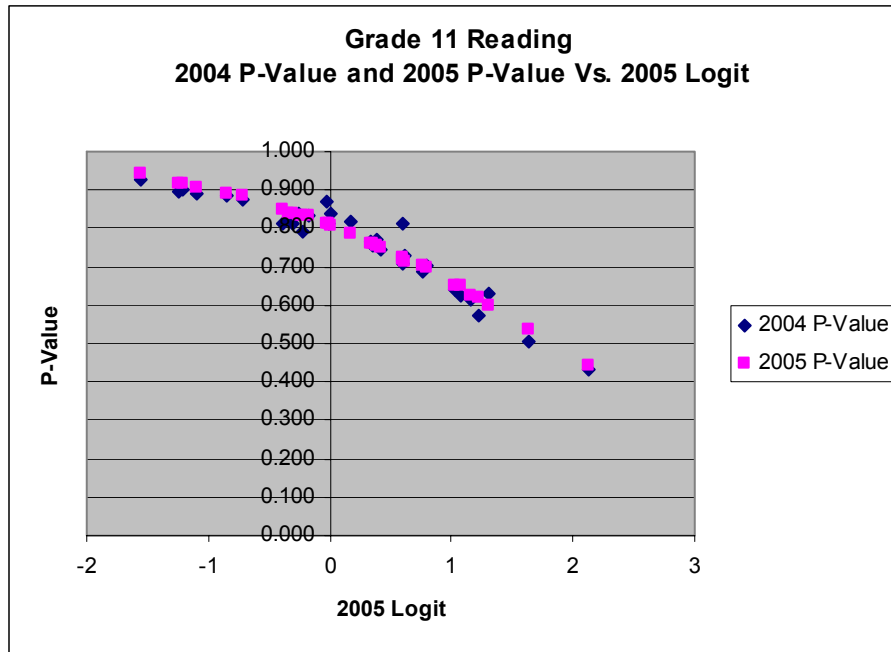


Figure 11.14

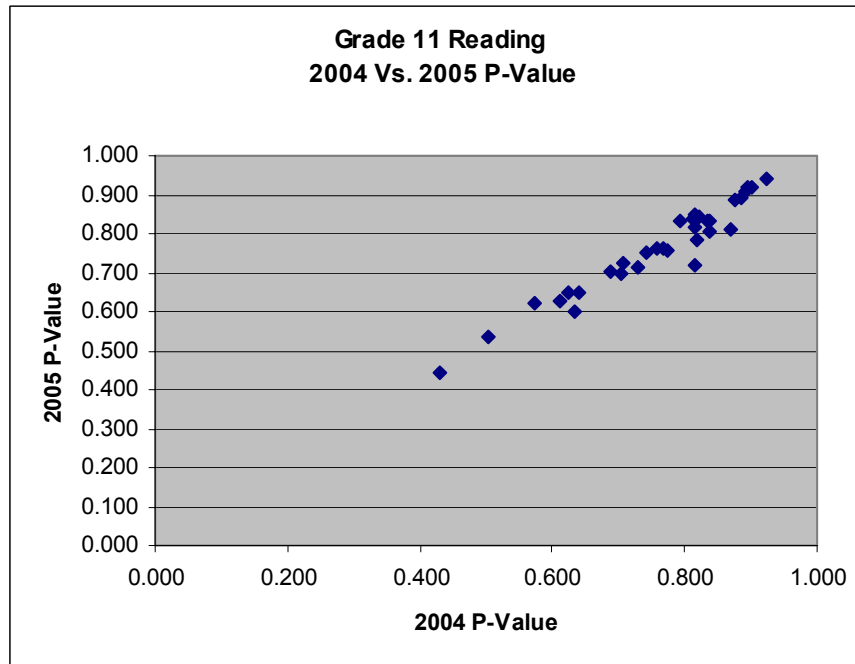


Figure 11.15

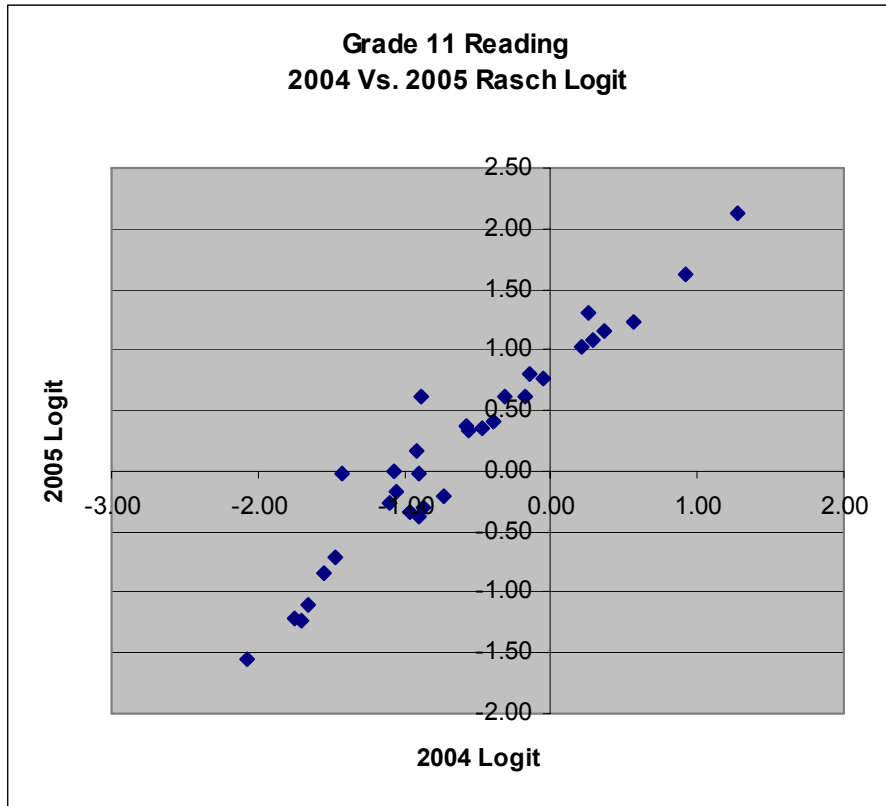


Figure 11.16

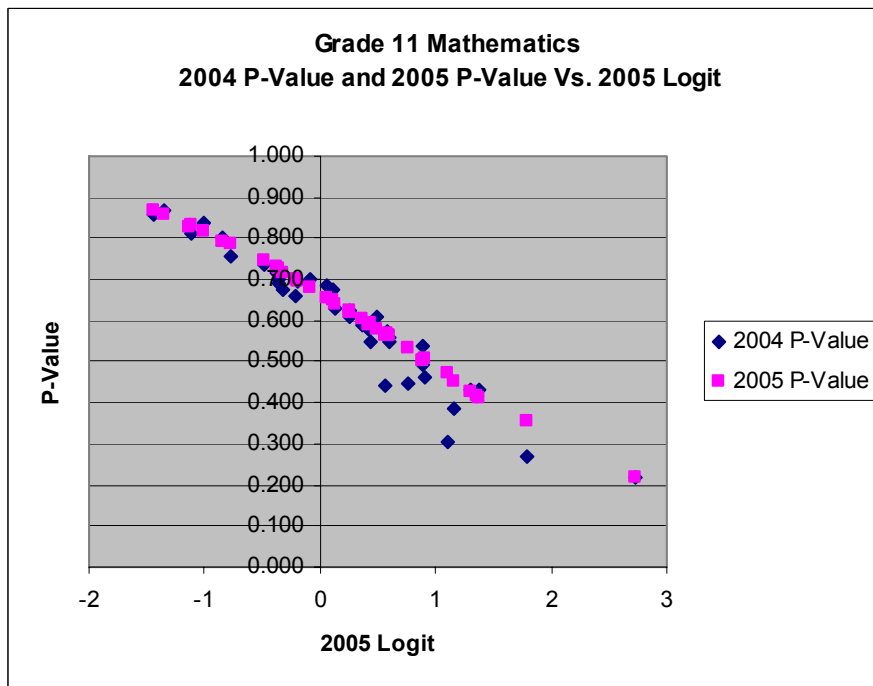


Figure 11.17

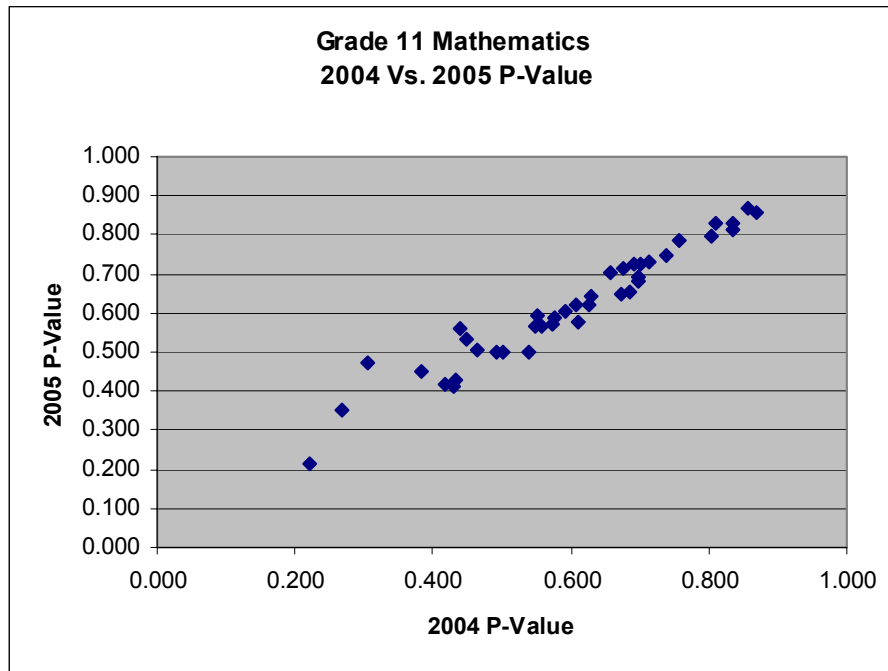
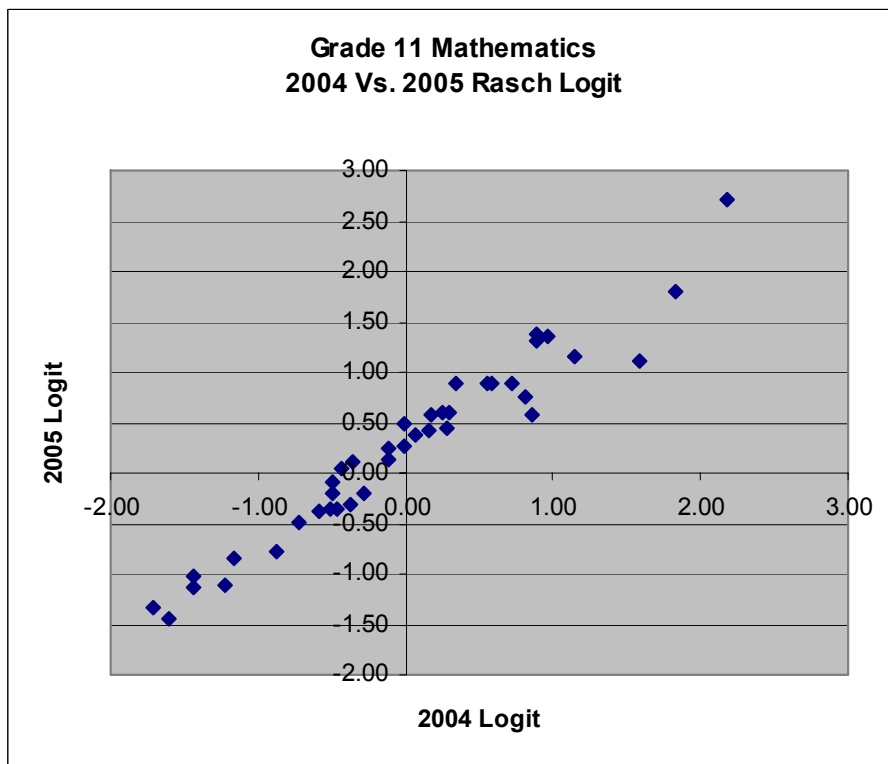


Figure 11.18



The 2004 Vs. 2005 Test Characteristic Curves by grade and subject are shown in the figures below.

This shows the similarity between the 2005 and 2004 tests in terms of form difficulty in the logit metric. Assuming equal numbers of items for the two years, curves that are close will translate into similar raw score cutpoints. With extreme differences in form difficulties, some loss of precision and reliability may result. However, this is clearly not evidenced in the below figures for this year's PSSA which display close matches across the years.

Figure 11.19

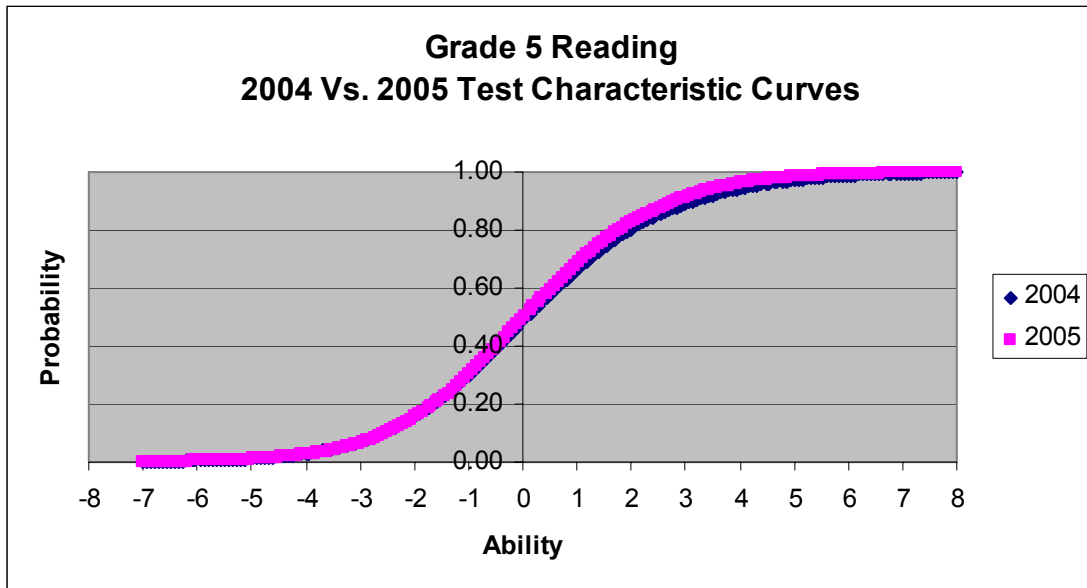


Figure 11.20

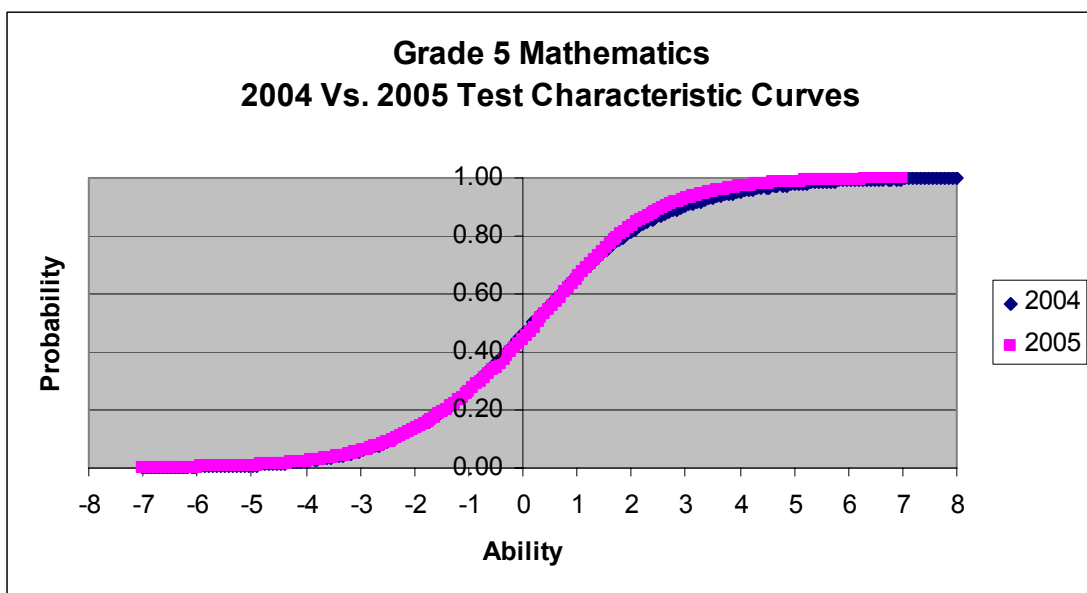


Figure 11.21

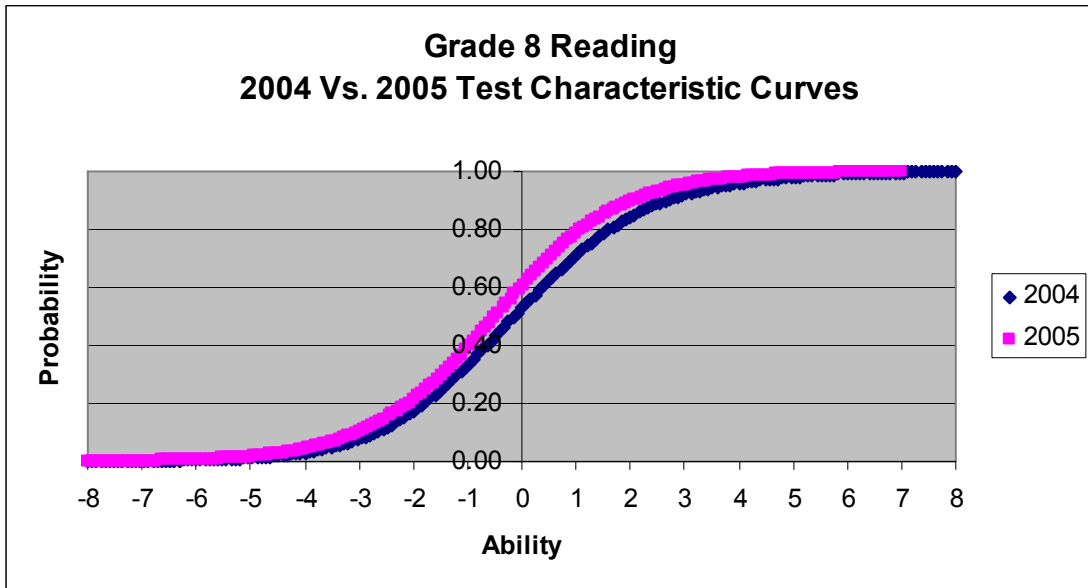


Figure 11.22

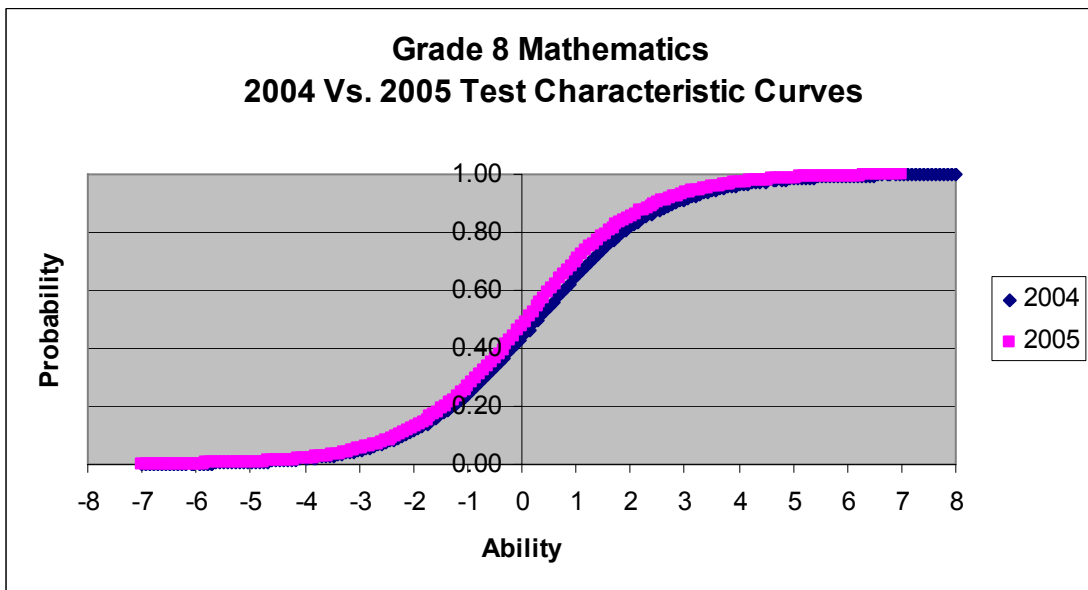


Figure 11.23

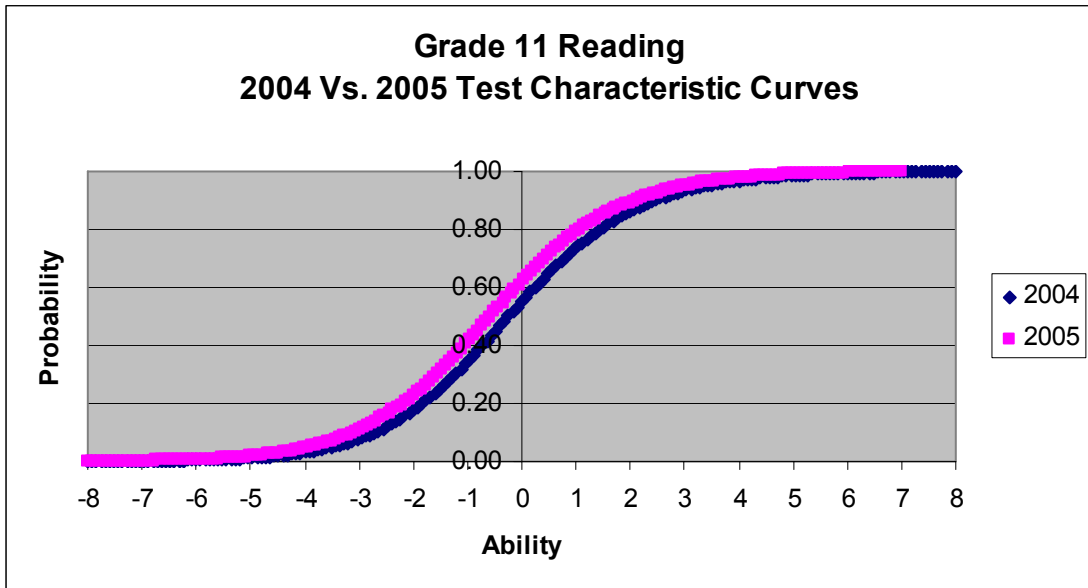
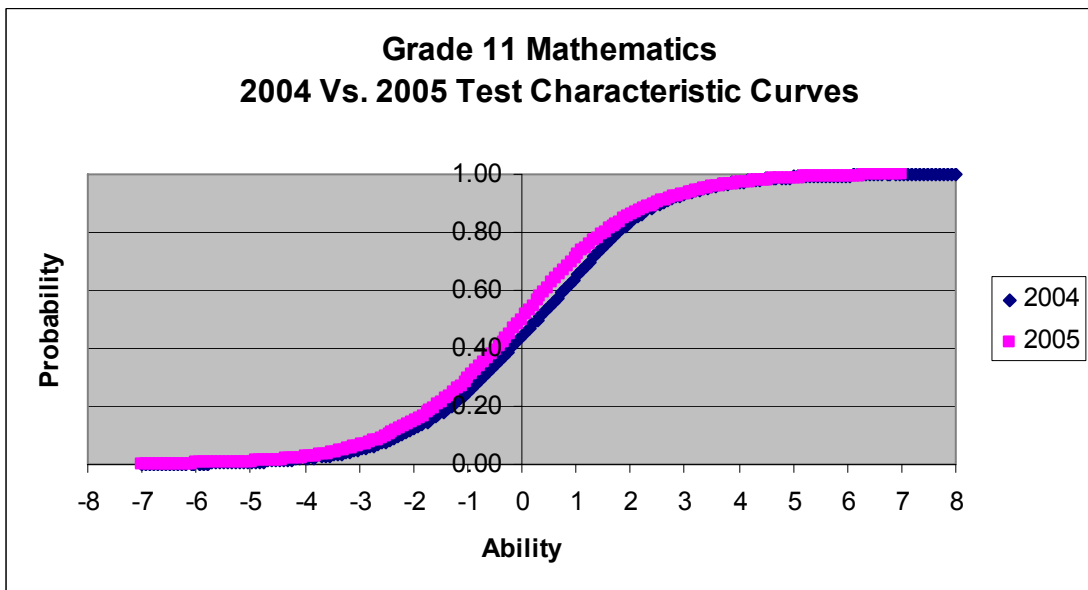


Figure 11.24



Chapter Twelve: Scaled Scores and Performance Levels

Prior to 2000 testing, when the PSSA design was heavily matrix sampling, estimating school-level scaled scores presented some statistical and psychometric challenges. The statistically correct method to compute the school-level scaled score often gave an answer different from what would be obtained by averaging student ability estimates. To avoid this source of misunderstanding, the school-level scores were made to equal the average of the appropriate students. The matrix sampling component of the design, together with items from the common section, was used at the academic standard category level to estimate relative strengths and weaknesses for the school.

The adoption of the Pennsylvania Academic Standards in 1999 brought structural changes to the PSSA that were fully implemented in 2000. Beginning with the new reporting design in 2000, content area total scores for students and for schools were based exclusively on the common sections. Thus, greater emphasis was placed on the common sections to possess optimal balance at the content standard level and yield reliable estimates of student-level abilities, as indicated by the standard errors. It was then possible to aggregate all scaled scores to the school, district, and state levels without resorting to any complex algorithms, making the results simpler to understand.

Because the original design of the PSSA was intended to produce school-level estimates only, the reporting metric was defined at the school level. For the 1996 base year, the mean of all schools in the *norming* sample was set at 1300 and the standard deviation at 100. The distribution to which these applied was the content area scaled score with all schools weighted equally. Consequently, the expectation in the base year was for state-level means near 1300 and standard deviations near 100. The state mean of student level scaled scores was, in general, somewhat different. This difference occurred because the mean of the school-level scores counted schools equally, regardless of size, while the mean of the student-level scores counted students equally.

A minimum scale score of 700 was implemented for all PSSA reading, mathematics, and writing exams beginning in 2002. This minimum is applied to all the PSSA scales. Although it affects very few students, many administrators believed that their schools were being penalized by the presence of extremely low scoring special needs students who took the regular assessment. The change was made to reduce the impact of these students on the overall school score. Note that there is no maximum scale score or upper bound.

Table 12-1 gives the transformations that were used to convert 2005 logits (X) into the scaled scores. These translation constants included the adjustments to equate 2005 to prior years as well as the rescaling needed to convert to the appropriate metric. These transformations are used for all scaled score calculations.

Table 12-1: Transformation to Scaled Scores

Grade	Reading	Mathematics
Five	$199X + 1095$	$190X + 1134$
Eight	$235X + 1114$	$178X + 1182$
Eleven	$245X + 1115$	$206X + 1203$

COMMON ITEMS AND MATRIX SAMPLED ITEMS

Beginning with the design changes implemented for the 2000 PSSA, student-level scores were based on the common items only. This ensures that any decision made about students will be done in the most equitable manner. School-level scaled scores for the content areas are based on the mean of the student-level scaled scores. This ensures that the scaled scores used for school accountability directly reflect the student-level results. It is a simple matter to aggregate up to the school, district, and state levels.

For the purpose of providing school-level results at the content standard (academic standards category) level, all items on all matrix forms plus the common items are utilized. This ensures that decisions about potential school-level strengths and weaknesses are based on broad sampling of the curriculum.

SCALED SCORES FOR CONTENT STANDARDS

Beginning in 2003, school-level scaled scores are no longer reported for the academic content standards (academic standards categories). Instead, school results are presented as the percent of total points achieved as compared to district and state level results.

INTERPRETING SCALED SCORES AND PERFORMANCE LEVELS

A *Scaled Score*, in the simplest sense, is a transformed number correct score⁷. When all students take the same items, as in the common sections of the PSSA, the more points the student earns, the higher the associated scaled score. The value of switching to the more abstract scaled score metric is to produce a more general and equitable result.

To illustrate the above, a raw score of 30 is almost meaningless unless the reader is also told how many points were possible. The same score has quite different meanings if it is based on a thirty-item test or on a sixty-item test. *Number correct scores are transformed to percent correct scores to remove the effect of test length.* In the same way, a score based on sixty *difficult* items is quite different from the same score based on sixty *easy* items. *Number correct scores are transformed to scaled scores to remove the effects of test length and item difficulty.* As a result, scale scores lend to interpretations at what is referred to as an interval level, while raw scores do not. Interval-level scales, in the testing industry, allow one to interpret a scale score difference of 5 points the same whether the scores are 1295 vs. 1300 or 1445 vs. 1450. Raw score differences, in this context, cannot be interpreted in this manner and are thus neither generalizable nor equitable.

The PSSA scaled score metric was originally anchored to the *mean school level scaled score* for a base year and arbitrarily labeled as 1300. In the base year, the standard deviation of the school-level scaled scores was set to a value of 100. If school scores are approximately normally distributed, a scaled score of 1400, one standard deviation above the base year mean, means the school did better than about 5/6 of the schools in the base year. About two thirds of the schools will have scaled scores between 1200 and 1400. Conversely, about 16% of the schools will be below 1200. Scaled scores of 1000 and 1600 are three standard deviations from the mean and so are extreme scores.

These labels of 1300, 1200, etc. are completely arbitrary; they could have been called zero and

⁷ This is done in two steps. First, there is a nonlinear transformation that converts number correct scores to logits and then a linear transformation to convert logits to scaled scores.

one, or 100 and 110, or any other ordered pair without affecting any of the relationships among schools, years, students, or items. Changing the scale would simply be changing the labels on the axis of a graph without moving any of the points.

Setting the mean at 1300 and the standard deviation at 100 was originally chosen so as to not produce negative scores and so that they are not confused with the results from any other testing program. Like the temperature scales of Fahrenheit and Celsius, the new scale will acquire meaning to users only with experience.

A scaled score of 1300, or any other value, should have the same absolute meaning in the current year as it had in previous years, when properly equated across years. A school with a scaled score above 1300 performed better than did the average school in the base year.

More importantly, an increase in the scaled score from last year to the current year means the students' performance has improved; it does not say anything about whether the exam is easier or harder. To make these interpretations requires no information about the length or the difficulty of the test in either year, although these variables are essential for the process of deriving the scaled scores.

Raw to scale score tables for the 2005 Spring assessment can be found in Appendix II.

PSSA PERFORMANCE LEVELS FOR READING AND MATHEMATICS

Performance levels are another way to attach meaning to the scaled score metric. They associate precise quantitative ranges of scaled scores with verbal, qualitative descriptions of student status. While much less precise, the qualitative description of the levels is one way for parents and teachers to interpret the student scores. They are also useful in assessing the status of the school.

The current performance level descriptors, as developed by PDE and teacher panels, are given below.

- **Advanced:** Superior academic performance indicating an in-depth understanding and exemplary display of the skills included in Pennsylvania's Academic Standards;
- **Proficient:** Satisfactory academic performance indicating a solid understanding and adequate display of the skills included in Pennsylvania's Academic Standards;
- **Basic:** Marginal academic performance, work approaching, but not yet reaching, satisfactory performance. Performance indicates a partial understanding and limited display of the skills included in Pennsylvania's Academic Standards. The student may need additional instructional opportunities and/or increased student academic commitment to achieve the Proficient Level;
- **Below Basic:** Inadequate academic performance that indicates little understanding and minimal display of the skills included in the Pennsylvania Academic Content Standards. There is a major need for additional instructional opportunities and/or increased student academic commitment to achieve the Proficient Level.

The quantitative definition of the performance levels, established through the Performance Levels Validation process, is shown in Chapter 14.

Chapter Thirteen: Test Validity and Reliability

VALIDITY

Evidence on content validity is presented in terms of how the 2005 PSSA assessments were assembled to reflect the state content standards (more information on this is presented in Chapter 3). This section is followed by a summary of the item-development procedures, and a presentation of the correlations among strands.

The PDE commitment to validity is also evidenced by the fact that the Pennsylvania State Board of Education commissioned an independent study of an earlier version of the PSSA. That study, conducted by HumRRO, included an extensive evaluation of the items (Thacker and Dickinson, 2004) and of statistical relationships of the PSSA, including convergent and discriminant validity (Thacker, Dickinson and Koger, 2004).

ITEM DEVELOPMENT

PDE commissioned Achieve, Inc. to conduct a series of reviews during the period in which PDE was in the process of developing and refining the assessment anchors and eligible content for reading and mathematics. Through an iterative process of successive refinement in which each version underwent review and modification in accordance with Achieve's recommendations, final documents for reading and mathematics emerged. Similarly, PDE submitted sets of items designed to measure these anchors (see Chapter 2 for additional details). The item development process also benefited from an evaluation of how well test items aligned with the assessment anchors and eligible content. The reviews conducted by Achieve (2005) focused on:

- Assessment anchors and eligible content for reading and mathematics.
- Alignment of assessments to the assessment anchors and eligible content and, subsequently, in developing items tailored toward these anchors.

Achieve, Inc. (2005). *Measuring Up 2005: A Report on Assessment Anchors and Tests in Reading and Mathematics for Pennsylvania*.

RELIABILITY

This chapter provides reliability indices and standard error of measurement (SEM) for the 2005 PSSA assessments. For the Rasch model, raw scores are sufficient statistics for abilities (and scale scores). For the Rasch model, performance levels set on scale scores are identical to those based on raw scores.

RELIABILITY INDICES

The Cronbach's Alpha reliability indices were calculated using the traditional formula. This reliability index combines dichotomous and polytomous item formats and follows the computational formula most often referred to as coefficient alpha (Cronbach 1951).

Tables 13-1 through 13-6 provide reliability information on the reading and mathematics tests by strand for the total student population and for students in each gender group and the ethnicity groups of White and Black, Hispanic, Asian, and Indian. Other groups such as LEP, IEP, and Economically Disadvantaged were also included for reliability estimation. The contents of the table include total number of points (K), number of students tested (N), mean points received, standard deviation (SD), mean P-Value, reliability, traditional standard error of measurement, and item type.

Table 13-1. GRADE 5 READING

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	134142	35.87	9.52	0.71	0.91	2.84	MC,CR
A) Comprehension and Reading Skills	38	134142	26.03	6.99	0.70	0.88	2.39	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	134142	9.84	2.96	0.74	0.73	1.52	MC,CR

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	68830	34.97	9.87	0.70	0.92	2.86	MC,CR
A) Comprehension and Reading Skills	38	68830	25.54	7.24	0.69	0.89	2.40	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	68830	9.43	3.05	0.72	0.75	1.54	MC,CR

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	64953	36.84	9.03	0.73	0.90	2.81	MC,CR
A) Comprehension and Reading Skills	38	64953	26.55	6.68	0.72	0.87	2.37	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	64953	10.28	2.79	0.77	0.71	1.50	MC,CR

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	99849	37.71	8.46	0.75	0.89	2.75	MC,CR
A) Comprehension and Reading Skills	38	99849	27.38	6.27	0.74	0.86	2.32	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	99849	10.34	2.65	0.78	0.69	1.48	MC,CR

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	21872	29.41	10.04	0.58	0.90	3.10	MC,CR
A) Comprehension and Reading Skills	38	21872	21.29	7.26	0.57	0.87	2.61	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	21872	8.12	3.26	0.62	0.75	1.64	MC,CR

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	7976	29.91	10.38	0.59	0.91	3.08	MC,CR
A) Comprehension and Reading Skills	38	7976	21.73	7.46	0.58	0.88	2.59	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	7976	8.18	3.36	0.62	0.76	1.63	MC,CR

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	3053	38.41	8.73	0.76	0.90	2.73	MC,CR
A) Comprehension and Reading Skills	38	3053	27.86	6.43	0.75	0.87	2.29	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	3053	10.56	2.74	0.78	0.71	1.48	MC,CR

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	155	35.55	9.89	0.71	0.92	2.85	MC,CR
A) Comprehension and Reading Skills	38	155	25.79	7.24	0.70	0.89	2.39	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	155	9.76	3.08	0.74	0.75	1.53	MC,CR

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	800	34.68	9.90	0.69	0.91	2.91	MC,CR
A) Comprehension and Reading Skills	38	800	25.16	7.26	0.68	0.89	2.46	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	800	9.52	3.08	0.72	0.75	1.54	MC,CR

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	2766	26.44	10.10	0.52	0.90	3.16	MC,CR
A) Comprehension and Reading Skills	38	2766	19.35	7.20	0.52	0.86	2.67	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	2766	7.10	3.37	0.54	0.75	1.67	MC,CR

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	21030	26.46	10.61	0.53	0.91	3.13	MC,CR
A) Comprehension and Reading Skills	38	21030	19.32	7.66	0.52	0.88	2.65	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	21030	7.13	3.40	0.55	0.77	1.64	MC,CR

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	49255	31.16	10.08	0.62	0.91	3.04	MC,CR
A) Comprehension and Reading Skills	38	49255	22.59	7.32	0.61	0.88	2.56	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	14	49255	8.57	3.22	0.65	0.75	1.61	MC,CR

Table 13-2. GRADE 5 MATH

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	134322	47.21	12.31	0.74	0.92	3.39	MC,CR
A) Numbers and Operations	29	134322	20.87	5.85	0.73	0.87	2.12	MC,CR
B) Measurement	9	134322	5.77	2.19	0.73	0.46	1.60	MC,CR
C) Geometry	9	134322	6.59	2.03	0.73	0.65	1.19	MC
D) Algebra	10	134322	7.07	2.08	0.74	0.60	1.31	MC,CR
E) Data Analysis and Probability	9	134322	6.91	2.01	0.77	0.69	1.12	MC

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	68945	47.32	12.43	0.74	0.93	3.36	MC,CR
A) Numbers and Operations	29	68945	21.07	5.90	0.74	0.87	2.09	MC,CR
B) Measurement	9	68945	5.75	2.16	0.73	0.46	1.58	MC,CR
C) Geometry	9	68945	6.57	2.07	0.73	0.67	1.19	MC
D) Algebra	10	68945	7.02	2.10	0.74	0.61	1.31	MC,CR
E) Data Analysis and Probability	9	68945	6.92	2.01	0.77	0.69	1.11	MC

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	65013	47.13	12.16	0.73	0.92	3.42	MC,CR
A) Numbers and Operations	29	65013	20.68	5.78	0.72	0.86	2.15	MC,CR
B) Measurement	9	65013	5.79	2.21	0.73	0.47	1.62	MC,CR
C) Geometry	9	65013	6.62	1.98	0.74	0.64	1.19	MC
D) Algebra	10	65013	7.13	2.05	0.74	0.59	1.31	MC,CR
E) Data Analysis and Probability	9	65013	6.91	2.01	0.77	0.69	1.12	MC

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	99900	49.37	11.10	0.77	0.91	3.29	MC,CR
A) Numbers and Operations	29	99900	21.81	5.37	0.76	0.85	2.05	MC,CR
B) Measurement	9	99900	6.07	2.07	0.76	0.41	1.58	MC,CR
C) Geometry	9	99900	6.89	1.89	0.77	0.63	1.15	MC
D) Algebra	10	99900	7.34	1.94	0.77	0.56	1.28	MC,CR
E) Data Analysis and Probability	9	99900	7.27	1.77	0.81	0.64	1.06	MC

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	21932	39.07	13.04	0.61	0.92	3.66	MC,CR
A) Numbers and Operations	29	21932	17.35	6.17	0.61	0.86	2.33	MC,CR
B) Measurement	9	21932	4.60	2.22	0.60	0.48	1.59	MC,CR
C) Geometry	9	21932	5.44	2.13	0.60	0.61	1.33	MC
D) Algebra	10	21932	6.04	2.26	0.63	0.62	1.40	MC,CR
E) Data Analysis and Probability	9	21932	5.63	2.28	0.63	0.68	1.28	MC

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	8029	41.19	13.14	0.64	0.92	3.60	MC,CR
A) Numbers and Operations	29	8029	18.11	6.19	0.63	0.86	2.30	MC,CR
B) Measurement	9	8029	4.94	2.24	0.64	0.49	1.60	MC,CR
C) Geometry	9	8029	5.87	2.12	0.65	0.64	1.27	MC
D) Algebra	10	8029	6.35	2.23	0.66	0.62	1.37	MC,CR
E) Data Analysis and Probability	9	8029	5.91	2.29	0.66	0.70	1.25	MC

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	3056	52.66	10.72	0.82	0.92	3.08	MC,CR
A) Numbers and Operations	29	3056	23.56	5.06	0.82	0.87	1.85	MC,CR
B) Measurement	9	3056	6.47	2.04	0.80	0.41	1.57	MC,CR
C) Geometry	9	3056	7.28	1.80	0.81	0.66	1.06	MC
D) Algebra	10	3056	7.94	1.77	0.83	0.55	1.19	MC,CR
E) Data Analysis and Probability	9	3056	7.41	1.80	0.82	0.68	1.01	MC

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	155	46.16	12.10	0.72	0.92	3.44	MC,CR
A) Numbers and Operations	29	155	20.68	5.59	0.72	0.86	2.13	MC,CR
B) Measurement	9	155	5.56	2.05	0.72	0.36	1.64	MC,CR
C) Geometry	9	155	6.39	2.04	0.71	0.64	1.22	MC
D) Algebra	10	155	6.90	2.10	0.71	0.58	1.37	MC,CR
E) Data Analysis and Probability	9	155	6.63	2.18	0.74	0.72	1.14	MC

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	803	44.83	13.11	0.70	0.93	3.48	MC,CR
A) Numbers and Operations	29	803	19.81	6.16	0.69	0.88	2.16	MC,CR
B) Measurement	9	803	5.51	2.27	0.70	0.47	1.65	MC,CR
C) Geometry	9	803	6.19	2.14	0.69	0.66	1.24	MC
D) Algebra	10	803	6.72	2.19	0.71	0.62	1.35	MC,CR
E) Data Analysis and Probability	9	803	6.60	2.16	0.73	0.72	1.15	MC

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	2809	37.83	13.44	0.59	0.92	3.70	MC,CR
A) Numbers and Operations	29	2809	16.72	6.35	0.59	0.86	2.37	MC,CR
B) Measurement	9	2809	4.59	2.28	0.60	0.51	1.59	MC,CR
C) Geometry	9	2809	5.32	2.17	0.59	0.63	1.32	MC
D) Algebra	10	2809	5.96	2.30	0.62	0.62	1.41	MC,CR
E) Data Analysis and Probability	9	2809	5.25	2.34	0.58	0.69	1.30	MC

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	21084	35.95	13.56	0.56	0.92	3.72	MC,CR
A) Numbers and Operations	29	21084	15.74	6.37	0.55	0.86	2.39	MC,CR
B) Measurement	9	21084	4.45	2.25	0.58	0.51	1.58	MC,CR
C) Geometry	9	21084	5.03	2.22	0.56	0.64	1.34	MC
D) Algebra	10	21084	5.41	2.39	0.56	0.63	1.45	MC,CR
E) Data Analysis and Probability	9	21084	5.31	2.31	0.59	0.68	1.30	MC

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	49383	41.72	12.96	0.65	0.92	3.60	MC,CR
A) Numbers and Operations	29	49383	18.36	6.13	0.64	0.86	2.29	MC,CR
B) Measurement	9	49383	5.03	2.22	0.65	0.48	1.60	MC,CR
C) Geometry	9	49383	5.86	2.13	0.65	0.64	1.28	MC
D) Algebra	10	49383	6.36	2.22	0.67	0.61	1.39	MC,CR
E) Data Analysis and Probability	9	49383	6.11	2.23	0.68	0.69	1.23	MC

Table 13-3. GRADE 8 READING

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	145752	39.12	9.07	0.77	0.91	2.73	MC,CR
A) Comprehension and Reading Skills	35	145752	26.89	6.13	0.79	0.88	2.12	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	145752	12.23	3.35	0.72	0.74	1.72	MC,CR

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	74502	37.81	9.67	0.75	0.92	2.80	MC,CR
A) Comprehension and Reading Skills	35	74502	26.09	6.55	0.77	0.89	2.16	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	74502	11.73	3.53	0.69	0.75	1.78	MC,CR

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	70866	40.53	8.14	0.79	0.90	2.64	MC,CR
A) Comprehension and Reading Skills	35	70866	27.76	5.51	0.81	0.86	2.06	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	70866	12.78	3.05	0.75	0.71	1.65	MC,CR

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	111984	40.61	8.14	0.80	0.90	2.62	MC,CR
A) Comprehension and Reading Skills	35	111984	27.89	5.48	0.82	0.86	2.03	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	111984	12.72	3.08	0.75	0.71	1.67	MC,CR

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	21819	33.46	10.01	0.66	0.91	3.07	MC,CR
A) Comprehension and Reading Skills	35	21819	23.10	6.83	0.68	0.88	2.41	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	21819	10.36	3.65	0.61	0.73	1.89	MC,CR

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	7664	33.56	10.31	0.66	0.91	3.05	MC,CR
A) Comprehension and Reading Skills	35	7664	23.10	7.02	0.68	0.88	2.40	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	7664	10.46	3.73	0.61	0.75	1.88	MC,CR

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	2929	41.19	8.15	0.80	0.90	2.59	MC,CR
A) Comprehension and Reading Skills	35	2929	28.08	5.52	0.82	0.86	2.04	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	2929	13.11	3.02	0.76	0.72	1.60	MC,CR

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	172	36.92	9.78	0.72	0.92	2.82	MC,CR
A) Comprehension and Reading Skills	35	172	25.41	6.81	0.75	0.90	2.19	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	172	11.51	3.41	0.67	0.73	1.78	MC,CR

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	558	35.71	10.48	0.70	0.92	2.93	MC,CR
A) Comprehension and Reading Skills	35	558	24.53	7.08	0.72	0.89	2.31	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	558	11.18	3.79	0.66	0.77	1.81	MC,CR

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	2088	28.48	9.85	0.55	0.89	3.26	MC,CR
A) Comprehension and Reading Skills	35	2088	19.68	6.75	0.57	0.85	2.60	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	2088	8.80	3.62	0.51	0.70	1.96	MC,CR

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	21653	28.10	10.32	0.55	0.90	3.20	MC,CR
A) Comprehension and Reading Skills	35	21653	19.61	7.16	0.58	0.88	2.53	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	21653	8.49	3.65	0.50	0.71	1.96	MC,CR

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	47201	34.59	9.98	0.68	0.91	3.00	MC,CR
A) Comprehension and Reading Skills	35	47201	23.87	6.80	0.70	0.88	2.35	MC,CR
B) Interpretation and Analysis of Fiction and Nonfiction	17	47201	10.73	3.63	0.63	0.74	1.86	MC,CR

Table 13-4. GRADE 8 MATH

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	145999	43.97	13.69	0.68	0.93	3.57	MC,CR
A) Numbers and Operations	13	145999	8.38	3.07	0.69	0.67	1.76	MC,CR
B) Measurement	10	145999	6.35	2.57	0.63	0.73	1.32	MC
C) Geometry	12	145999	8.40	2.73	0.70	0.74	1.38	MC
D) Algebra	19	145999	13.00	4.26	0.69	0.80	1.91	MC,CR
E) Data Analysis and Probability	12	145999	7.84	2.78	0.68	0.70	1.52	MC,CR

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	74646	44.03	13.89	0.68	0.94	3.54	MC,CR
A) Numbers and Operations	13	74646	8.46	3.08	0.70	0.68	1.73	MC,CR
B) Measurement	10	74646	6.50	2.56	0.65	0.74	1.31	MC
C) Geometry	12	74646	8.48	2.74	0.71	0.75	1.37	MC
D) Algebra	19	74646	12.88	4.31	0.69	0.81	1.90	MC,CR
E) Data Analysis and Probability	12	74646	7.71	2.84	0.67	0.71	1.53	MC,CR

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	70968	43.95	13.44	0.68	0.93	3.59	MC,CR
A) Numbers and Operations	13	70968	8.30	3.06	0.68	0.66	1.79	MC,CR
B) Measurement	10	70968	6.20	2.57	0.62	0.73	1.34	MC
C) Geometry	12	70968	8.32	2.71	0.69	0.73	1.39	MC
D) Algebra	19	70968	13.14	4.18	0.70	0.79	1.92	MC,CR
E) Data Analysis and Probability	12	70968	7.99	2.70	0.69	0.69	1.50	MC,CR

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	112085	46.28	12.67	0.72	0.92	3.48	MC,CR
A) Numbers and Operations	13	112085	8.83	2.89	0.72	0.64	1.73	MC,CR
B) Measurement	10	112085	6.73	2.44	0.67	0.72	1.30	MC
C) Geometry	12	112085	8.79	2.55	0.73	0.72	1.35	MC
D) Algebra	19	112085	13.64	4.00	0.73	0.79	1.85	MC,CR
E) Data Analysis and Probability	12	112085	8.29	2.57	0.72	0.67	1.47	MC,CR

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	21912	34.09	13.27	0.54	0.92	3.81	MC,CR
A) Numbers and Operations	13	21912	6.42	3.06	0.55	0.66	1.79	MC,CR
B) Measurement	10	21912	4.71	2.43	0.47	0.65	1.43	MC
C) Geometry	12	21912	6.69	2.76	0.56	0.69	1.53	MC
D) Algebra	19	21912	10.28	4.20	0.56	0.76	2.06	MC,CR
E) Data Analysis and Probability	12	21912	5.99	2.84	0.53	0.68	1.61	MC,CR

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	7703	36.82	13.65	0.57	0.92	3.78	MC,CR
A) Numbers and Operations	13	7703	6.97	3.12	0.59	0.66	1.81	MC,CR
B) Measurement	10	7703	5.15	2.52	0.51	0.69	1.41	MC
C) Geometry	12	7703	7.25	2.81	0.60	0.72	1.48	MC
D) Algebra	19	7703	11.00	4.23	0.59	0.77	2.03	MC,CR
E) Data Analysis and Probability	12	7703	6.46	2.92	0.56	0.69	1.62	MC,CR

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	2936	51.10	12.13	0.79	0.93	3.18	MC,CR
A) Numbers and Operations	13	2936	9.86	2.75	0.79	0.67	1.57	MC,CR
B) Measurement	10	2936	7.58	2.36	0.76	0.76	1.16	MC
C) Geometry	12	2936	9.64	2.41	0.80	0.75	1.21	MC
D) Algebra	19	2936	15.07	3.64	0.80	0.78	1.70	MC,CR
E) Data Analysis and Probability	12	2936	8.94	2.47	0.78	0.68	1.40	MC,CR

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	172	40.94	13.92	0.64	0.93	3.67	MC,CR
A) Numbers and Operations	13	172	7.69	3.02	0.64	0.64	1.80	MC,CR
B) Measurement	10	172	5.88	2.42	0.59	0.66	1.40	MC
C) Geometry	12	172	7.84	2.86	0.65	0.75	1.43	MC
D) Algebra	19	172	12.27	4.44	0.66	0.80	1.97	MC,CR
E) Data Analysis and Probability	12	172	7.27	3.01	0.64	0.75	1.52	MC,CR

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	564	38.75	14.48	0.60	0.93	3.74	MC,CR
A) Numbers and Operations	13	564	7.48	3.28	0.62	0.70	1.81	MC,CR
B) Measurement	10	564	5.55	2.59	0.55	0.71	1.38	MC
C) Geometry	12	564	7.51	2.93	0.63	0.76	1.45	MC
D) Algebra	19	564	11.33	4.52	0.60	0.80	2.02	MC,CR
E) Data Analysis and Probability	12	564	6.89	2.99	0.60	0.72	1.59	MC,CR

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	2104	33.19	13.81	0.52	0.92	3.81	MC,CR
A) Numbers and Operations	13	2104	6.25	3.18	0.53	0.69	1.78	MC,CR
B) Measurement	10	2104	4.81	2.55	0.48	0.69	1.41	MC
C) Geometry	12	2104	6.50	2.81	0.54	0.71	1.52	MC
D) Algebra	19	2104	10.11	4.31	0.55	0.77	2.08	MC,CR
E) Data Analysis and Probability	12	2104	5.52	2.89	0.49	0.68	1.64	MC,CR

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	21734	29.30	12.66	0.46	0.91	3.82	MC,CR
A) Numbers and Operations	13	21734	5.57	2.95	0.48	0.64	1.78	MC,CR
B) Measurement	10	21734	4.19	2.33	0.42	0.63	1.43	MC
C) Geometry	12	21734	5.94	2.69	0.49	0.67	1.55	MC
D) Algebra	19	21734	8.60	4.05	0.47	0.74	2.08	MC,CR
E) Data Analysis and Probability	12	21734	5.00	2.75	0.44	0.66	1.61	MC,CR

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	47344	37.05	13.68	0.58	0.92	3.77	MC,CR
A) Numbers and Operations	13	47344	7.02	3.10	0.59	0.66	1.80	MC,CR
B) Measurement	10	47344	5.23	2.53	0.52	0.69	1.41	MC
C) Geometry	12	47344	7.22	2.80	0.60	0.72	1.49	MC
D) Algebra	19	47344	11.03	4.28	0.59	0.77	2.03	MC,CR
E) Data Analysis and Probability	12	47344	6.55	2.89	0.57	0.69	1.60	MC,CR

Table 13-5. GRADE 11 READING

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	129693	38.75	9.51	0.76	0.92	2.72	MC,CR
A) Comprehension and Reading Skills	27	129693	21.56	5.14	0.80	0.88	1.81	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	129693	17.19	4.82	0.70	0.83	2.00	MC,CR

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	64604	37.92	9.93	0.75	0.92	2.75	MC,CR
A) Comprehension and Reading Skills	27	64604	21.29	5.38	0.79	0.88	1.83	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	64604	16.64	5.00	0.69	0.84	2.03	MC,CR

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	64112	39.65	8.92	0.78	0.91	2.66	MC,CR
A) Comprehension and Reading Skills	27	64112	21.86	4.84	0.81	0.86	1.79	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	64112	17.79	4.53	0.72	0.82	1.95	MC,CR

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	104509	40.25	8.51	0.79	0.91	2.62	MC,CR
A) Comprehension and Reading Skills	27	104509	22.35	4.55	0.83	0.86	1.73	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	104509	17.90	4.43	0.73	0.81	1.94	MC,CR

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	15661	31.04	10.43	0.61	0.91	3.11	MC,CR
A) Comprehension and Reading Skills	27	15661	17.54	5.95	0.65	0.87	2.17	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	15661	13.50	5.01	0.55	0.80	2.22	MC,CR

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	4888	32.27	10.56	0.64	0.92	3.06	MC,CR
A) Comprehension and Reading Skills	27	4888	18.10	5.95	0.67	0.87	2.13	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	4888	14.17	5.12	0.59	0.82	2.18	MC,CR

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	3107	39.26	9.81	0.77	0.92	2.70	MC,CR
A) Comprehension and Reading Skills	27	3107	21.55	5.29	0.80	0.88	1.81	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	3107	17.71	4.94	0.72	0.84	1.98	MC,CR

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	154	38.16	9.18	0.75	0.91	2.78	MC,CR
A) Comprehension and Reading Skills	27	154	21.44	5.04	0.79	0.87	1.83	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	154	16.72	4.69	0.68	0.81	2.06	MC,CR

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	327	34.88	10.94	0.69	0.93	2.93	MC,CR
A) Comprehension and Reading Skills	27	327	19.49	6.12	0.72	0.89	2.00	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	327	15.39	5.30	0.63	0.84	2.12	MC,CR

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	1417	27.05	10.54	0.54	0.90	3.26	MC,CR
A) Comprehension and Reading Skills	27	1417	15.18	5.91	0.56	0.85	2.29	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	1417	11.88	5.19	0.49	0.81	2.29	MC,CR

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	15878	27.00	10.39	0.54	0.91	3.16	MC,CR
A) Comprehension and Reading Skills	27	15878	15.49	6.03	0.57	0.86	2.27	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	15878	11.50	4.93	0.49	0.80	2.18	MC,CR

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	52	29346	32.80	10.56	0.65	0.92	3.03	MC,CR
A) Comprehension and Reading Skills	27	29346	18.51	5.95	0.69	0.88	2.10	MC
B) Interpretation and Analysis of Fiction and Nonfiction	25	29346	14.29	5.12	0.59	0.82	2.17	MC,CR

Table 13-6. GRADE 11 MATH

Overall

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	129962	39.89	15.17	0.63	0.94	3.68	MC,CR
A) Numbers and Operations	9	129962	6.34	2.26	0.70	0.73	1.19	MC
B) Measurement	9	129962	5.87	2.33	0.65	0.73	1.21	MC
C) Geometry	11	129962	6.56	2.96	0.64	0.67	1.70	MC,CR
D) Algebra	26	129962	14.46	6.61	0.58	0.88	2.26	MC,CR
E) Data Analysis and Probability	11	129962	6.66	2.75	0.66	0.65	1.62	MC,CR

Male

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	64769	40.07	15.48	0.64	0.94	3.66	MC,CR
A) Numbers and Operations	9	64769	6.35	2.31	0.71	0.74	1.18	MC
B) Measurement	9	64769	5.90	2.33	0.66	0.73	1.21	MC
C) Geometry	11	64769	6.63	2.98	0.66	0.68	1.68	MC,CR
D) Algebra	26	64769	14.45	6.72	0.58	0.89	2.24	MC,CR
E) Data Analysis and Probability	11	64769	6.74	2.81	0.67	0.66	1.63	MC,CR

Female

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	64197	39.79	14.80	0.63	0.94	3.70	MC,CR
A) Numbers and Operations	9	64197	6.35	2.20	0.71	0.71	1.19	MC
B) Measurement	9	64197	5.85	2.31	0.65	0.72	1.22	MC
C) Geometry	11	64197	6.50	2.94	0.63	0.66	1.71	MC,CR
D) Algebra	26	64197	14.50	6.49	0.58	0.88	2.27	MC,CR
E) Data Analysis and Probability	11	64197	6.59	2.68	0.65	0.64	1.61	MC,CR

White

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	104630	41.94	14.48	0.66	0.94	3.64	MC,CR
A) Numbers and Operations	9	104630	6.61	2.14	0.73	0.71	1.16	MC
B) Measurement	9	104630	6.15	2.21	0.68	0.71	1.19	MC
C) Geometry	11	104630	6.94	2.85	0.68	0.65	1.68	MC,CR
D) Algebra	26	104630	15.24	6.45	0.61	0.88	2.25	MC,CR
E) Data Analysis and Probability	11	104630	7.00	2.62	0.69	0.63	1.60	MC,CR

Black

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	15766	28.25	12.99	0.46	0.92	3.74	MC,CR
A) Numbers and Operations	9	15766	4.83	2.31	0.54	0.66	1.34	MC
B) Measurement	9	15766	4.24	2.23	0.47	0.65	1.32	MC
C) Geometry	11	15766	4.43	2.59	0.45	0.57	1.69	MC,CR
D) Algebra	26	15766	9.98	5.39	0.41	0.83	2.22	MC,CR
E) Data Analysis and Probability	11	15766	4.77	2.56	0.49	0.60	1.61	MC,CR

Hispanic

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	4906	30.17	13.71	0.49	0.93	3.75	MC,CR
A) Numbers and Operations	9	4906	5.16	2.33	0.57	0.68	1.32	MC
B) Measurement	9	4906	4.56	2.29	0.51	0.68	1.30	MC
C) Geometry	11	4906	4.83	2.78	0.49	0.62	1.71	MC,CR
D) Algebra	26	4906	10.60	5.72	0.44	0.85	2.23	MC,CR
E) Data Analysis and Probability	11	4906	5.03	2.62	0.52	0.62	1.62	MC,CR

Asian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	3112	48.07	14.46	0.76	0.94	3.40	MC,CR
A) Numbers and Operations	9	3112	7.34	1.93	0.82	0.73	1.01	MC
B) Measurement	9	3112	6.84	2.17	0.76	0.75	1.08	MC
C) Geometry	11	3112	7.77	2.84	0.75	0.68	1.60	MC,CR
D) Algebra	26	3112	18.31	6.29	0.73	0.89	2.07	MC,CR
E) Data Analysis and Probability	11	3112	7.80	2.70	0.76	0.66	1.57	MC,CR

Indian

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	154	38.81	15.95	0.62	0.95	3.68	MC,CR
A) Numbers and Operations	9	154	6.19	2.23	0.69	0.70	1.22	MC
B) Measurement	9	154	5.84	2.48	0.65	0.76	1.20	MC
C) Geometry	11	154	6.34	2.94	0.64	0.66	1.70	MC,CR
D) Algebra	26	154	14.21	7.03	0.57	0.90	2.26	MC,CR
E) Data Analysis and Probability	11	154	6.21	2.92	0.62	0.70	1.60	MC,CR

Multi

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	328	33.66	15.48	0.54	0.94	3.77	MC,CR
A) Numbers and Operations	9	328	5.55	2.46	0.62	0.74	1.26	MC
B) Measurement	9	328	5.04	2.39	0.56	0.72	1.27	MC
C) Geometry	11	328	5.59	2.98	0.55	0.65	1.75	MC,CR
D) Algebra	26	328	11.91	6.55	0.48	0.88	2.26	MC,CR
E) Data Analysis and Probability	11	328	5.57	2.97	0.57	0.69	1.66	MC,CR

LEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	1424	31.72	15.37	0.52	0.94	3.70	MC,CR
A) Numbers and Operations	9	1424	5.41	2.44	0.60	0.73	1.27	MC
B) Measurement	9	1424	4.60	2.44	0.51	0.72	1.28	MC
C) Geometry	11	1424	4.92	3.03	0.51	0.69	1.67	MC,CR
D) Algebra	26	1424	11.76	6.43	0.48	0.88	2.20	MC,CR
E) Data Analysis and Probability	11	1424	5.02	2.76	0.53	0.65	1.64	MC,CR

IEP

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	15935	23.50	11.53	0.39	0.90	3.67	MC,CR
A) Numbers and Operations	9	15935	3.99	2.16	0.44	0.60	1.37	MC
B) Measurement	9	15935	3.66	2.07	0.41	0.60	1.32	MC
C) Geometry	11	15935	3.75	2.51	0.39	0.58	1.63	MC,CR
D) Algebra	26	15935	8.00	4.56	0.33	0.77	2.16	MC,CR
E) Data Analysis and Probability	11	15935	4.10	2.41	0.43	0.58	1.56	MC,CR

ECO

Strand	K	N	Mean	SD	Mean P-Value	Reliability	SEM	Item Types In Strand
Overall	66	29467	30.95	14.04	0.50	0.93	3.77	MC,CR
A) Numbers and Operations	9	29467	5.19	2.36	0.58	0.69	1.31	MC
B) Measurement	9	29467	4.66	2.33	0.52	0.69	1.29	MC
C) Geometry	11	29467	4.99	2.83	0.50	0.63	1.72	MC,CR
D) Algebra	26	29467	10.85	5.82	0.45	0.85	2.25	MC,CR
E) Data Analysis and Probability	11	29467	5.26	2.68	0.54	0.63	1.63	MC,CR

PSSA CONSTRUCT VALIDITY

Correlations by reporting category were calculated using Pearson’s Correlation Coefficient. These correlations are presented in Tables 13-7 through 13-9. They display the expected pattern and magnitude of correlations. For example, the reading total should correlate higher with the reading part or subscores than with the math total or subscores. Note that the correlation between the reading and math total scores is .773 for grade 5. When this value is squared, the resulting value of .60 translates into the shared variance between the two assessments across the student population. This is a fairly typical outcome based on recent research.

Table 13-7. Grade 5 Correlations

R	1								
RA	.982(**)	1							
RB	.897(**)	.798(**)	1						
M	.773(**)	.764(**)	.682(**)	1					
MA	.731(**)	.724(**)	.641(**)	.955(**)	1				
MB	.586(**)	.578(**)	.518(**)	.789(**)	.678(**)	1			
MC	.620(**)	.613(**)	.547(**)	.794(**)	.685(**)	.572(**)	1		
MD	.631(**)	.620(**)	.565(**)	.821(**)	.733(**)	.579(**)	.586(**)	1	
ME	.687(**)	.678(**)	.607(**)	.835(**)	.747(**)	.590(**)	.630(**)	.638(**)	1
	R	RA	RB	M	MA	MB	MC	MD	ME

** Correlation is significant at the 0.01 level (2-tailed).

Table 13-8. Grade 8 Correlations

R	1								
RA	.977(**)	1							
RB	.920(**)	.815(**)	1						
M	.779(**)	.758(**)	.722(**)	1					
MA	.681(**)	.664(**)	.630(**)	.887(**)	1				
MB	.636(**)	.620(**)	.590(**)	.866(**)	.727(**)	1			
MC	.768(**)	.748(**)	.712(**)	.993(**)	.875(**)	.874(**)	1		
MD	.733(**)	.713(**)	.681(**)	.928(**)	.772(**)	.746(**)	.921(**)	1	
ME	.727(**)	.707(**)	.675(**)	.877(**)	.725(**)	.701(**)	.853(**)	.769(**)	1
	R	RA	RB	M	MA	MB	MC	MD	ME

** Correlation is significant at the 0.01 level (2-tailed).

Table 13-9. Grade 11 Correlations

R	1								
RA	.957(**)	1							
RB	.952(**)	.822(**)	1						
M	.756(**)	.712(**)	.733(**)	1					
MA	.662(**)	.630(**)	.634(**)	.844(**)	1				
MB	.668(**)	.633(**)	.643(**)	.854(**)	.692(**)	1			
MC	.666(**)	.627(**)	.645(**)	.872(**)	.686(**)	.718(**)	1		
MD	.700(**)	.653(**)	.684(**)	.954(**)	.757(**)	.760(**)	.768(**)	1	
ME	.661(**)	.623(**)	.640(**)	.863(**)	.690(**)	.693(**)	.712(**)	.766(**)	1
	R	RA	RB	M	MA	MB	MC	MD	ME

** Correlation is significant at the 0.01 level (2-tailed).

Below are the correlations corrected for attenuation for the non-confounding pairs; that is, those without shared items. These reflect the correlation between the two measures to account for the unreliability of both. Given that none of these tests have perfect reliabilities (equal to one), the correlations are somewhat higher than those shown in Tables 13-7 to 13-9 above. In application, values may exceed the typical upper bound of 1.0 when the correlations are relatively high and the reliabilities relatively low.

Table 13-10. Grade 5 Disattenuated Correlations

R	-								
RA	-	-							
RB	-	0.991	-						
M	0.842	0.846	0.828	-					
MA	0.822	0.827	0.803	-	-				
MB	0.901	0.903	0.887	-	1.067	-			
MC	0.803	0.806	0.789	-	0.908	1.037	-		
MD	0.853	0.851	0.851	-	1.015	1.096	0.934	-	
ME	0.865	0.867	0.852	-	0.963	1.041	0.936	0.989	-
	R	RA	RB	M	MA	MB	MC	MD	ME

Table 13-11. Grade 8 Disattenuated Correlations

R	-								
RA	-	-							
RB	-	1.013	-						
M	0.846	0.837	0.872	-					
MA	0.871	0.863	0.897	-	-				
MB	0.778	0.771	0.803	-	1.035	-			
MC	0.935	0.925	0.964	-	1.239	1.183	-		
MD	0.860	0.850	0.889	-	1.054	0.974	1.196	-	
ME	0.910	0.899	0.939	-	1.055	0.976	1.181	1.027	-
	R	RA	RB	M	MA	MB	MC	MD	ME

Table 13-12. Grade 11 Disattenuated Correlations

R	-								
RA	-	-							
RB	-	0.965	-						
M	0.813	0.784	0.830	-					
MA	0.811	0.790	0.818	-	-				
MB	0.817	0.793	0.828	-	0.952	-			
MC	0.848	0.818	0.865	-	0.983	1.027	-		
MD	0.777	0.743	0.800	-	0.946	0.948	0.998	-	
ME	0.854	0.824	0.871	-	1.003	1.006	1.076	1.009	-
	R	RA	RB	M	MA	MB	MC	MD	ME

PSSA RELIABILITY OF PERFORMANCE LEVELS

Since it is not feasible to repeat PSSA testing in order to estimate the proportion of students who would be reclassified in the same performance levels, a statistical model needs to be imposed on the data in order to project the consistency of classifications (see Hambleton and Novick, 1973). Although a number of procedures are available for this, perhaps the two most well known are the methods developed by Huynh Huynh (1976) and Michael J. Subkoviak (1976) using the binomial distribution. These methods are known to yield similar results.

Using an extension of the formulae in Huynh 1976⁸ based on total points rather than the number of multiple-choice items, both the agreement and kappa indices for the classification of students to performance levels were calculated. The decision index depicts the proportion of students who are consistently classified in the same achievement levels on two equivalent administration of the test. The kappa index, on the other hand, reflects the level of improving beyond the chance level in the consistency of classifications.

Both decision consistency and kappa indices were computed for each grade and subject for the case of four performance levels. Note that the calculations presented in Table 13-13 are based on dichotomized levels. For example, the calculation for Basic is for those above and below the Basic level. In like manner, Proficient reflects those above and below the Proficient level and Advanced reflects those above and below the Advanced level. The consistency indices for the four performance levels taken simultaneously (see column labeled “Overall” in the table) are lower than those based on two categories. This is not surprising since classification using four levels would allow more opportunity to change the achievement levels, resulting in lower consistency indices.

⁸ Thanks to Dr. Huynh for his input on this calculation.

Table 13-13. Decision Consistency

	Basic	Proficient	Advanced	Overall
Math Grade 5				
Cutpoints	1158	1312	1483	ALL
α	3.27485	3.27485	3.27485	3.27485
β	1.36335	1.36335	1.36335	1.36335
KR21	0.93434	0.93434	0.93434	0.93434
Decision Index	0.94201	0.90067	0.89119	0.73667
K	0.74845	0.77982	0.76473	0.63432
Math Grade 8				
Cutpoints	1171	1284	1446	ALL
α	2.59479	2.59479	2.59479	2.59479
β	1.36032	1.36032	1.36032	1.36032
KR21	0.94346	0.94346	0.94346	0.94346
Decision Index	0.92847	0.90372	0.90196	0.73936
K	0.78168	0.79817	0.78288	0.64539
Math Grade 11				
Cutpoints	1167	1304	1509	ALL
α	1.89142	1.89142	1.89142	1.89142
β	1.32595	1.32595	1.32595	1.32595
KR21	0.95352	0.95352	0.95352	0.95352
Decision Index	0.91956	0.90953	0.92271	0.75620
K	0.81420	0.81903	0.79037	0.67138

	Basic	Proficient	Advanced	Overall
Reading Grade 5				
Cutpoints	1137	1275	1497	ALL
α	3.54995	3.54995	3.54995	3.54995
β	1.66467	1.66467	1.66467	1.66467
KR21	0.90886	0.90886	0.90886	0.90886
Decision Index	0.90398	0.87286	0.88711	0.67698
K	0.72472	0.73968	0.69981	0.56414
Reading Grade 8				
Cutpoints	1146	1280	1473	ALL
α	3.28548	3.28548	3.28548	3.28548
β	1.16361	1.16361	1.16361	1.16361
KR21	0.92118	0.92118	0.92118	0.92118
Decision Index	0.90506	0.88212	0.88039	0.69066
K	0.75509	0.75999	0.73473	0.57861
Reading Grade 11				
Cutpoints	1112	1257	1492	ALL
α	2.55098	2.55098	2.55098	2.55098
β	0.97697	0.97697	0.97697	0.97697
KR21	0.93647	0.93647	0.93647	0.93647
Decision Index	0.91041	0.89632	0.89257	0.72320
K	0.78582	0.78788	0.76282	0.61706

Chapter Fourteen: Performance Level Validation Report

BACKGROUND

The initial standard setting for the PSSA was held in Grantville, Pennsylvania in the Spring of 2001. It included grades 5, 8, and 11 in reading and mathematics. Cutpoints were established for placing students in four performance levels: Advanced, Proficient, Basic, and Below Basic. In addition, performance level descriptions were established at the end, written by the panelists, and subsequently used in score reports and other state materials. The meeting was conducted by CTB/McGraw-Hill and utilized the Bookmark procedure (see Lewis, Mitzel, & Green, 1996).

PURPOSE AND OBJECTIVES

Panelists were introduced to the following pre-existing conditions that contributed to the purpose for the meeting:

- Existing cutpoints had been in place since 2001
- New assessment anchors were just adopted
- New assessments in grades 3, 4, 6, and 7 that did not have cutpoints
- Refinements to the assessment were made based on a HumRRO content validity study
- Performance Level Descriptors (PLDs) were rewritten
- Reporting categories were reduced from 11 to 5 for math and from 5 to 2 for reading
- State Board regulations require periodic review

The stated purpose and objective of the meeting was to either validate or realign the already established cutpoints that defined the placement of students into the four performance levels for grades 3, 5, 8 and 11. It was further stated that the results from this meeting would be presented to the State Board for review and possible adoption for application to student data in Spring 2005.

MODIFIED BOOKMARK

DRC utilized a modified Bookmark procedure to coincide as closely as possible to the methodology used in 2001 for setting the previous cutpoints. Bookmark is one in a broad category of methods commonly referred to as item mapping that focuses on items rather than examinees. To begin the process, participants were asked to visualize the knowledge and skills of a student who is at the borderline between two Performance Levels based on the PLDs. Thereafter, participants were given an ordered item booklet (from the easiest item to the most difficult) and asked to assess whether this borderline student had a reasonably high probability of answering each item. For multiple-choice (MC) items, reasonably high was set at 2/3 or .67. For constructed response (CR) items, the level was set such that a student displayed just enough knowledge to achieve the given score point (e.g., 3 of 4). CR items were preceded by an example of student work associated with the item scale point. In addition, an item map was presented which contained the response key, the PLD, and item difficulty (in the logit metric). Panelists were given a rating sheet to record their individual placements for all performance levels by round. They were also given scoring guidelines for the CR items, passage booklets for reading, and a formula page for math.

TRAINING

Training was conducted the morning of the meetings by subject. Panelists were told that they were:

- To be responsible for all secure materials
- To verify their individual placements for each round of judgments, and
- To participate in a discussion as a large group

Training materials included:

- General Performance Level Descriptors (PLD)
- Subject specific PLDs
- Ordered Item Booklets (OIB)
- Item Map

Panelists were told that the process would include iterations (rounds) of individual judgments, small group discussions and large group discussions, and opportunities to revise judgments. In addition, impacts would be presented (% of students in each performance level) based on the large groups, and when appropriate, in the other grades. A copy of the training sample is displayed below:

Bookmark Placement Method Training

If you placed the bookmark on OIB page 5 this means that Item 5 is the first item that you believe a borderline student, that is, a student not quite at the higher proficiency level, is likely to get **incorrect**. Correspondingly, you believe Item 4 is the last item this hypothetical student would most likely get **correct** (with 67 percent probability).

Bookmark Information	
OIB Page	Scale Score
1	232
2	267
3	275
4	301
5	326
6	356
7	371
8	384
9	404
10	418

Note the 25 point difference between Items 4 & 5. A borderline student could actually begin answering items correctly anywhere in this 25 point range. This means that the suggested cutpoint likely falls somewhere between 301 and 325. Therefore, the precision of your placement depends somewhat on this interval.

To determine the impact of placing the bookmark on Item 5, draw a line on the Person Raw to Scale Score Table at the location of the cut score (i.e., 301 falls between a raw score of 5 and 6). This indicates that, if implemented, 69% of examinees would fall into the lower proficiency level.

Person Raw to Scale Score Table			
Raw Score	Scale Score	Percent	Cum. Percent
10	515	3	100
9	461	4	97
8	401	5	93
7	362	8	88
6	330	11	80
5	300	12	69
4	270	14	57
3	238	12	43
2	199	11	31
1	139	8	20
0	85	12	12

A copy of the agenda for the meeting is provided in Appendix EE.

PERFORMANCE LEVELS VALIDATION VERSUS STANDARDS SETTING

There are key differences between establishing standards from scratch (i.e., determining cutpoints that define the border between two proficiency levels) versus revisiting cutpoints that have been previously established. The former is an example of Standard Setting and the latter is an example (using Pennsylvania language) of Performance Levels Validation. As the reader continues in this document, recognizing and understanding these differences is critical to ensure the accurate review and evaluation of its contents. As a convention, this report will use SS for Standard Setting and PLV for Performance Levels Validation. Note that the below comparison is based on common use of the methods and will not necessarily match every instance of either method in terms of process.

The formal process for SS is to have the panelists evaluate the items at the beginning, in this case the first item being the easiest item. In PLV, the panelists are presented with items that represent the current cutpoints. As part of their judgments, they begin reviewing the item that represents the border between Proficient and Basic. Thereafter, they are asked to review the cutpoint separating Advanced and Proficient, then the cutpoint separating Basic and Below Basic.

Another important distinction is how the standard errors are computed and when they are utilized. The formal process for Bookmark SS is to use the cluster sample standard error based on the median judgments at the table level. In addition to the variability across tables, this computation contains an effect due to the interdependencies of the panelists' judgments within tables. The computation is computed for each round, with the results (that is, recommendations of the panel) generally being based on the final round of judgments. In PLV, in this application, standard errors of the median were also used. However, how they were computed and how they were utilized differed in three significant ways: 1) the computation of the standard error of the median did not include the within table effect and 2) medians were calculated by panelist groups rather than by table, and 3) the standard errors for the results (synthesis) were based on Round 1 (before discussion) rather than the final round. The impact of these three differences comes into play most significantly in the synthesis part of the process and is explained in detail below.

COMPOSITION OF PANEL

There were 27 panelists for mathematics and 28 panelists for reading for a total of 55 panelists. The demographics of the panelists are displayed in the following section. They include gender, role (e.g., teacher, educator/non-teacher, or other), region of residence in the state, and years of teaching experience.

DEMOGRAPHIC DISTRIBUTION

Figure 14.1

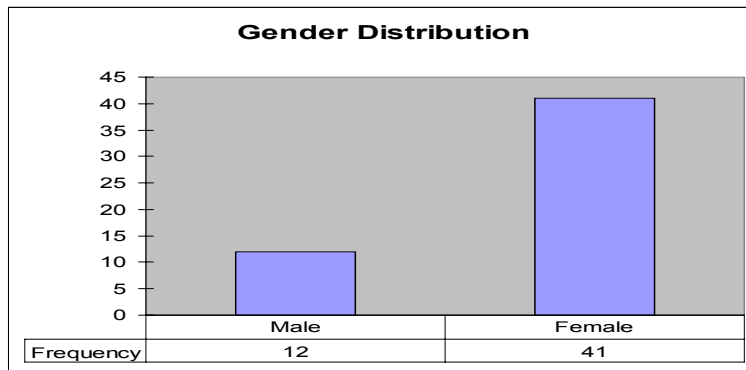


Figure 14.2

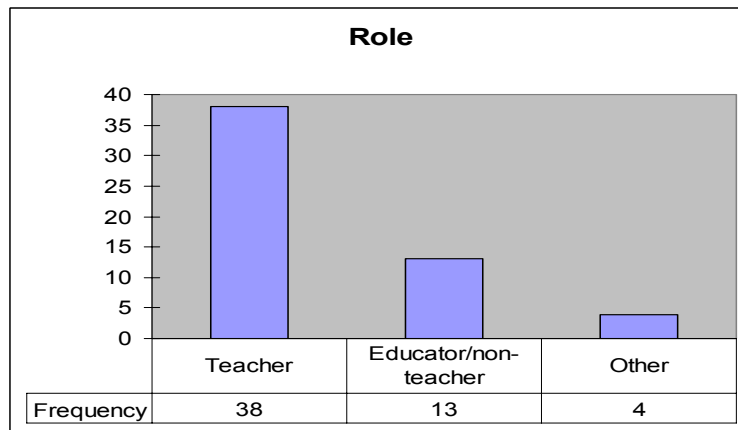


Figure 14.3

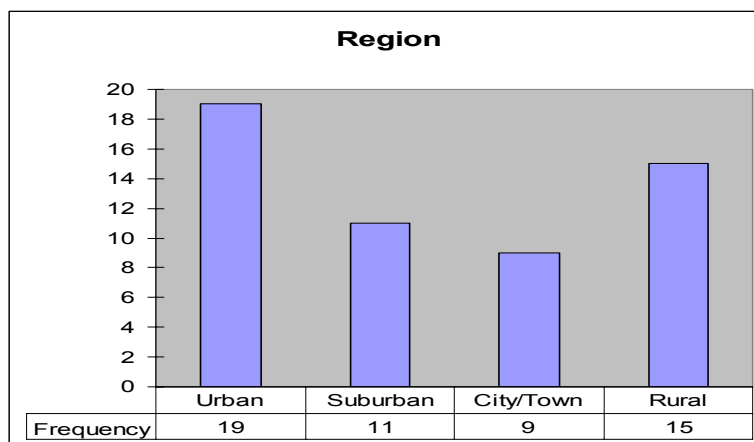
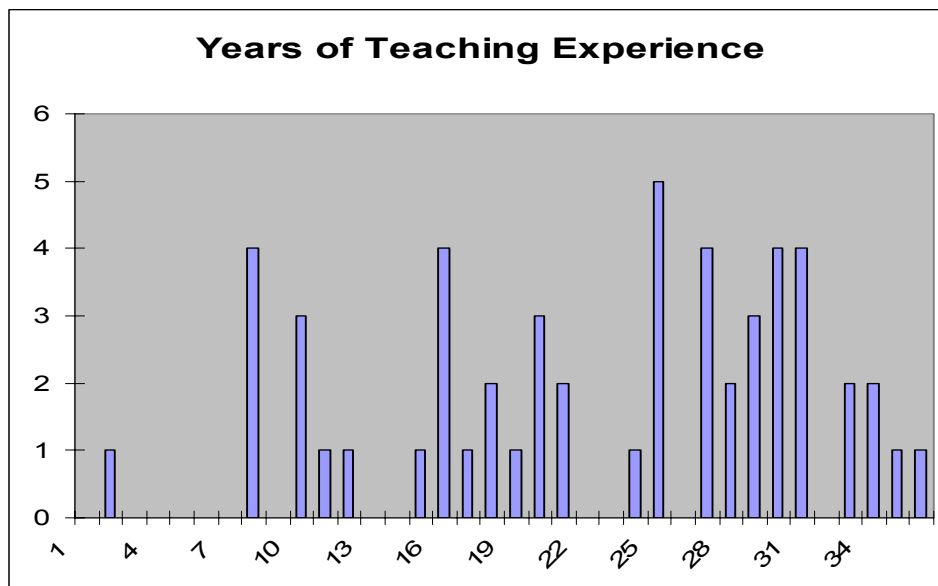


Figure 14.4



BREAKOUT OF PANELIST GROUPS

Approximately half of the participants in each subject reviewed grade 5 and the other half reviewed grade 8. Thereafter, the same two groups (by subject) reviewed grades 3 and 11, respectively. Results were shown to each group (by subject) as they became available. In addition, a checkpoint at the end of the final round, across all grades within subject, was added to the process. As part of this step, panelists were asked to assess whether they were confident in the resulting articulation of cutpoints across all grades.

CUTPOINTS AND STANDARD ERRORS

ESTABLISHMENT OF INITIAL CUTPOINTS (AKA STARTING VALUES)

The formal calculations for placement of the initial cutpoints utilized a pre-smoothing procedure. For grades 5, 8, and 11, starting values were determined by applying an exponential growth function to the across-grade 2005 data (after equating). Thus, performance levels validation was used to set the new cutpoints while incorporating any possible growth or decline from the previous year.

While linear and various degrees of polynomials were considered for the pre-smoothing, the exponential growth curve created more reasonable results in terms of a compromise between fitting the data too much and not enough. The above process was applied to the logits for grades 5, 8, and 11 and extrapolated for grade 3. The pre-smoothing, in total, provided neither growth nor decline. However, by grade, some of the starting cutpoints went up and some went down.

Starting values were presented to the panelists at the beginning of the meeting. Panelists were instructed to place a post-it note in their ordered item booklet to indicate the location of the cutpoints based on the starting values they were provided for their subject and grade.

These starting values (converted to the percentage of students in each of the four levels) are shown below, across grades, for each subject:

Figure 14.5

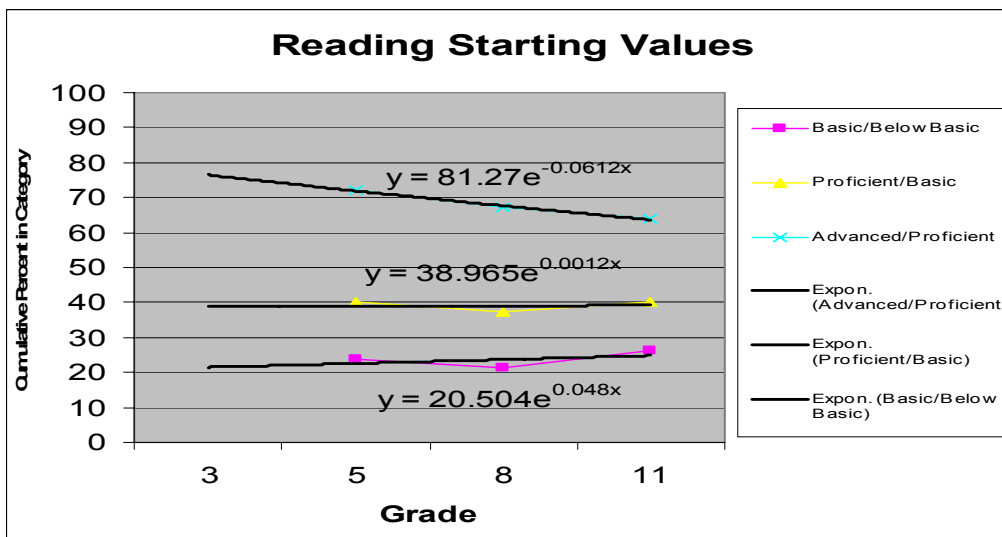
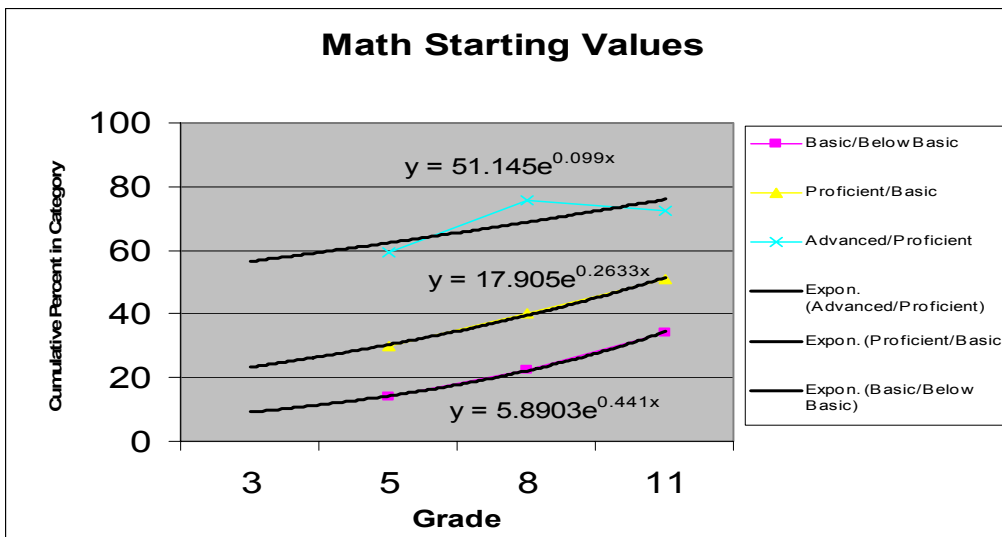


Figure 14.6



COMPUTATION OF STANDARD ERRORS

Standard errors associated with this process represent the likely range of recommendations that might result had the panels of educators conducted the same process, under the same conditions. Note that the groups of 28 for each subject were split into two groups that worked on grades 3 and 5, or 8 and 11. Therefore, the sample sizes for each group were approximately 14.

It is important to note that the calculations were based on the standard error of the median. The standard error of the median, given a normal distribution or large samples, is approximately 25 percent larger than the standard error of the means. Thus, multiplying the standard error of the

means by a factor of 1.25 was a reasonable approximation to use.

Note that the standard errors of a performance levels validation would be expected to be smaller than those for an independent standards setting. This is due to the fact that the panelists were given starting values (initial cutpoints) rather than beginning without any prior information. Recall that the participants were instructed to either validate or suggest new cutpoints. In effect, they went into the process with the goal of articulating the cutpoints across grades in a reasonable manner and were not asked to treat this as independent of the existing cutpoints. Therefore, it was determined that the appropriate standard error of the performance levels validation should be based on the calculations after round one judgments, before group discussion. Lastly, to coincide with the goal to achieve the articulation of cutpoints across grades, the standard errors were pooled across grades within subject and cutpoint.

Table 14-1 shows the standard errors in the logit (Rasch) metric for each cutpoint, by grade, within subject, before and after pooling. Table 14-2 shows the same information, but in the scale score metric. Note that the complete set of standard errors by subject and grade for each round may be found Appendix FF.

Table 14-1. Standard Errors Logit Metric

Grade	Reading			Mathematics		
	BB/B	B/P	P/A	BB/B	B/P	P/A
3	0.0361	0.0856	0.1226	0.0516	0.0704	0.0459
5	0.0421	0.0859	0.1168	0.0372	0.0084	0.0629
8	0.0657	0.0654	0.1011	0.0601	0.0773	0.1036
11	0.0485	0.0866	0.1138	0.0709	0.0536	0.1316
Pooled	0.0481	0.0808	0.1136	0.0550	0.0524	0.0860

Table 14-2. Standard Errors Scale Score Metric

Grade	Reading			Mathematics		
	BB/B	B/P	P/A	BB/B	B/P	P/A
3	8	18	26	10	14	9
5	8	17	23	7	2	12
8	15	15	24	11	14	18
11	12	20	28	15	11	27

BB- Below Basic
B- Basic
P- Proficient
A- Advanced

USE OF STANDARD ERRORS

Standard error bands are commonly used to set reasonable boundaries around point estimates. If replicated, a one standard error band would be expected to contain the point estimate 68 percent of the time. A two standard errors band would be expected to contain the point estimate 95 percent of the time.

Plots of the one standard error bands in the scale score metric, *centered at the starting value*, across grades for each subject are shown below. Given its relative importance in arriving at the recommendations to the State Board, it is presented here as a precursor to its use in section 6.

Figure 14.6

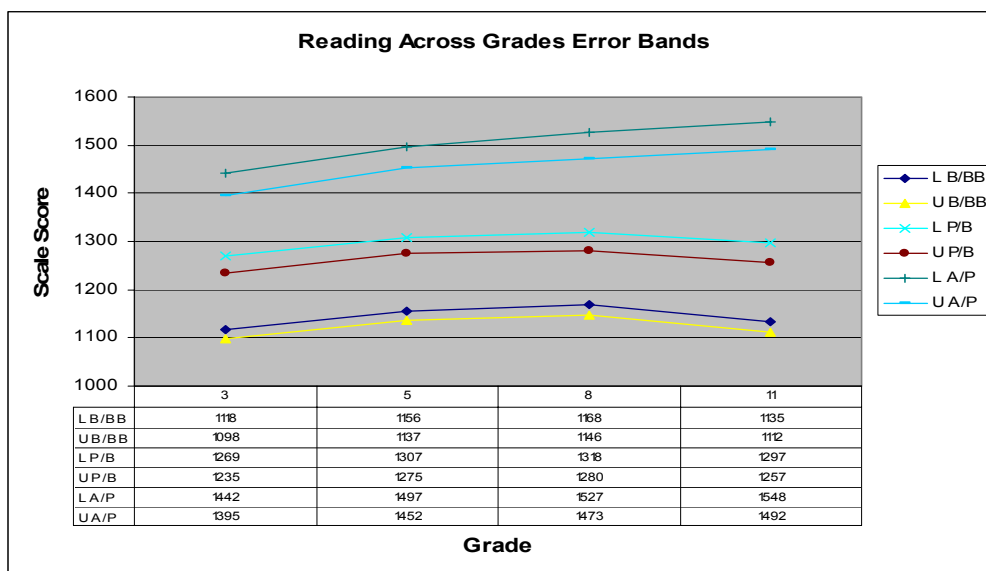
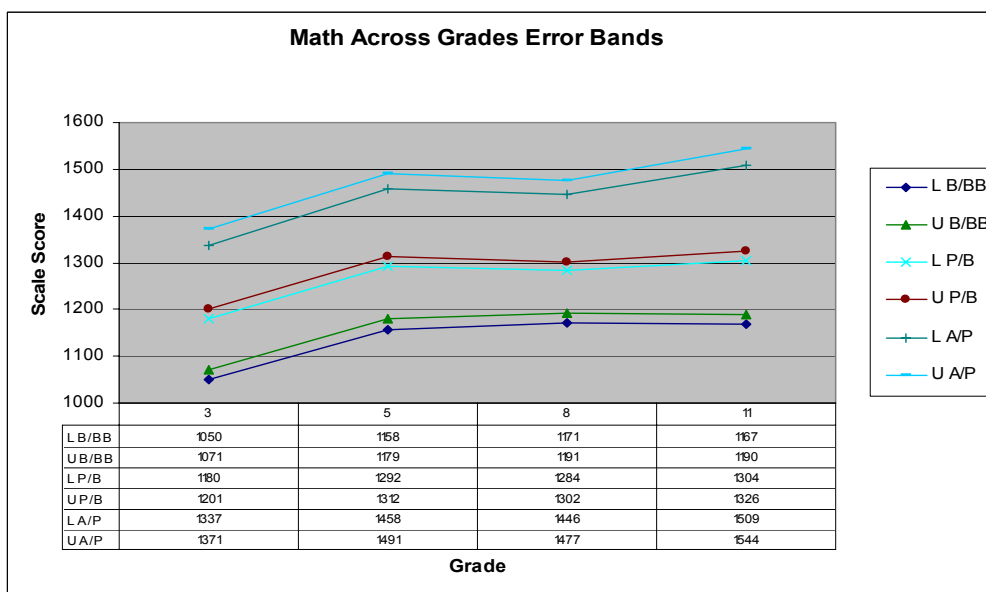


Figure 14.7



RESULTS

This section presents plots that show the recommendations taken to the State Board on June 29, 2005, and the following additional information for comparison (a description of the labels is described just below, in bold, as they are presented on the subsequent plots):

- **2004:** Results from 2004 (not including for grade 3, given it was not administered in 2004).
- **Existing:** Results from 2005 after equating using the previous cutpoints (except for grade 3).
- **Starting Values:** As described above.
- **Upper Band:** One standard error above the starting value.
- **Lower Band:** One standard error below the starting value.
- **Panelist:** Panelists' final recommendations.
- **SE One:** One standard error applied to the panelist's recommendations (presented to the State Board for approval).

The results shown below are based on the percentage of students in each performance level.

Figure 14.8

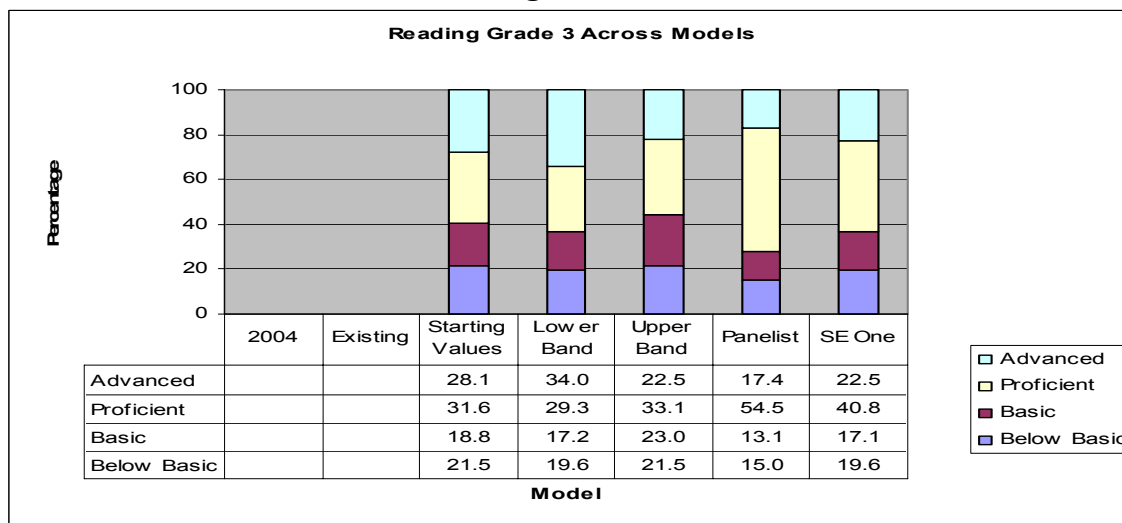


Figure 14.9

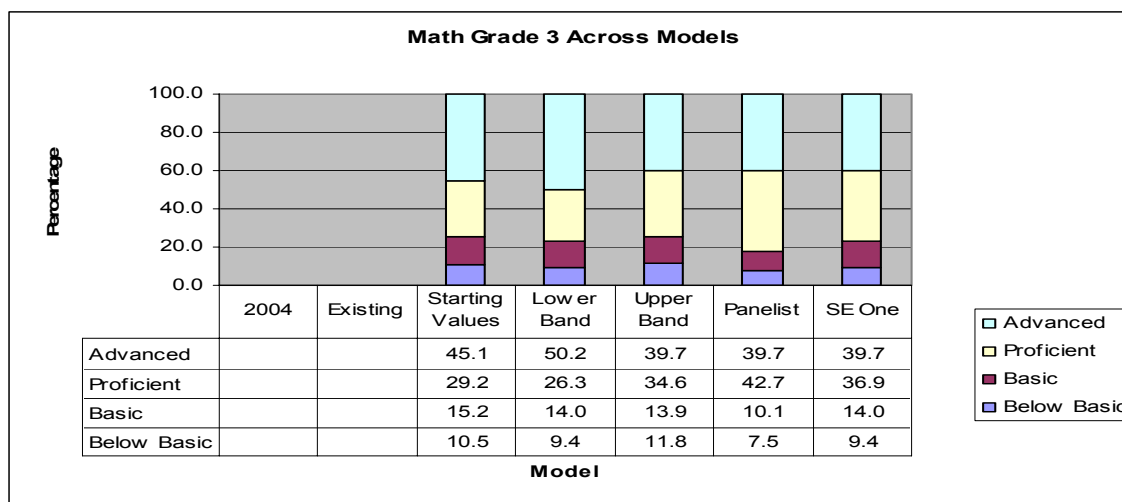


Figure 14.10

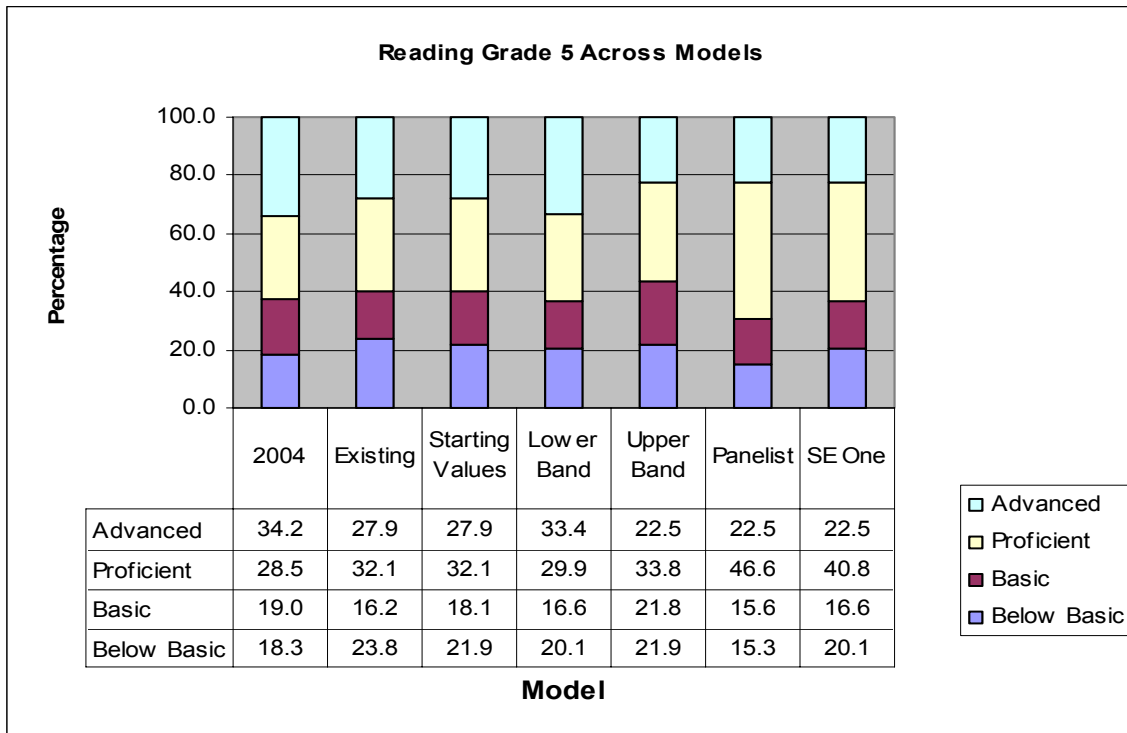


Figure 14.11

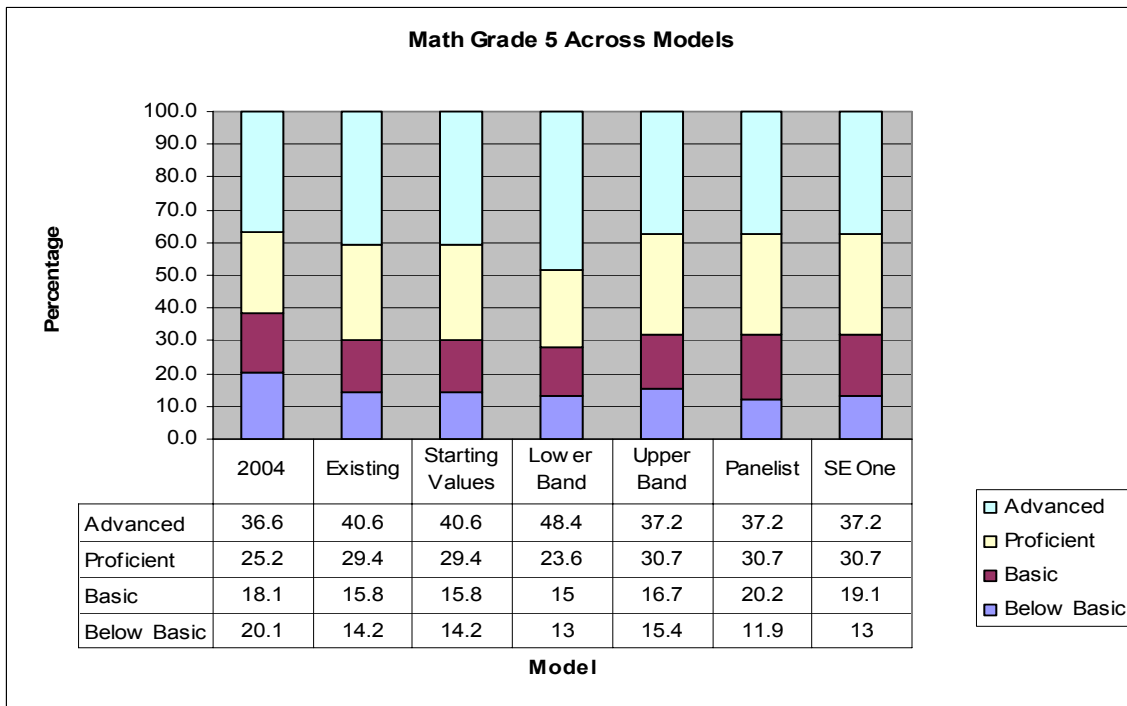


Figure 14.12

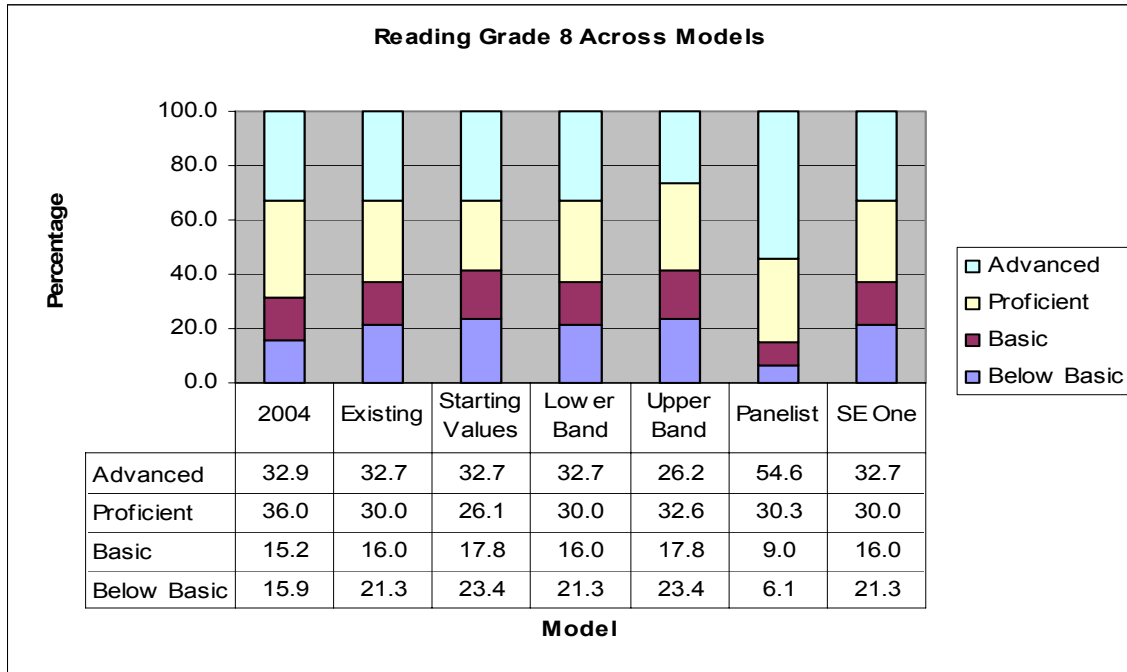


Figure 14.13

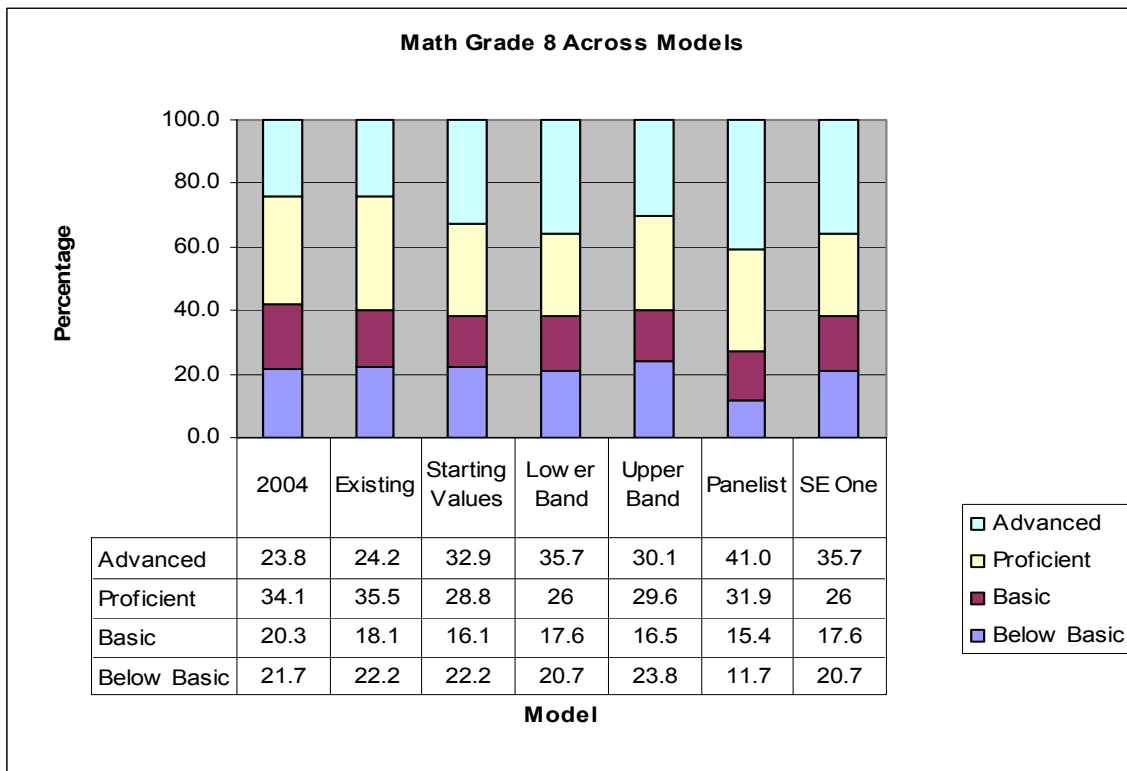


Figure 14.14

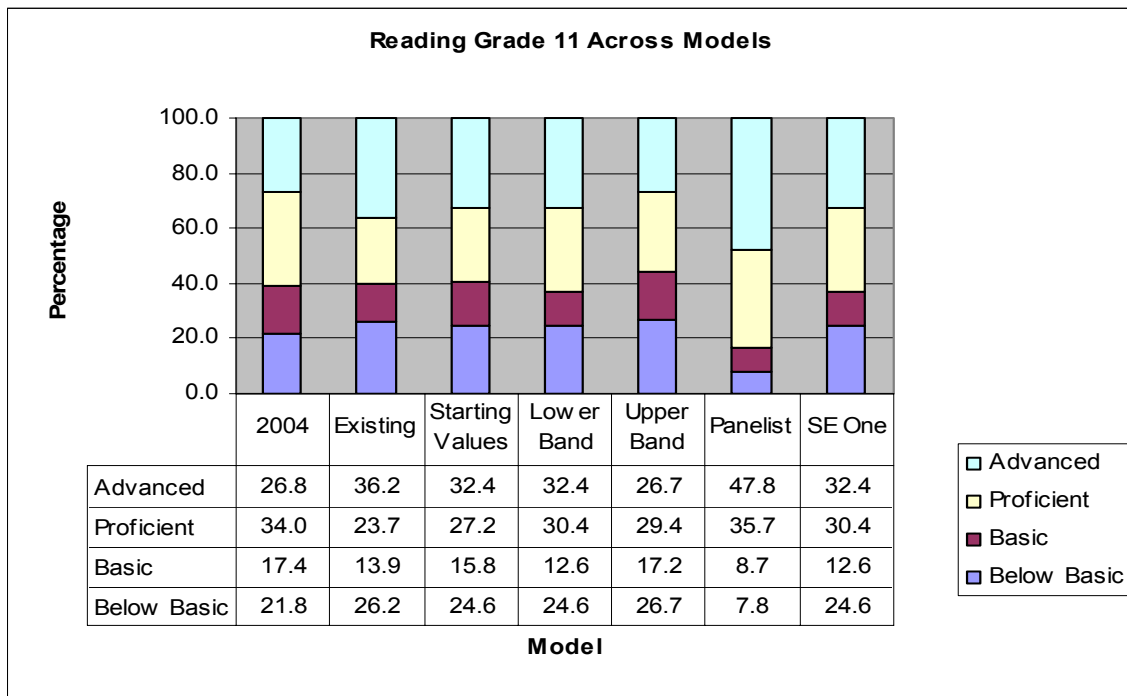
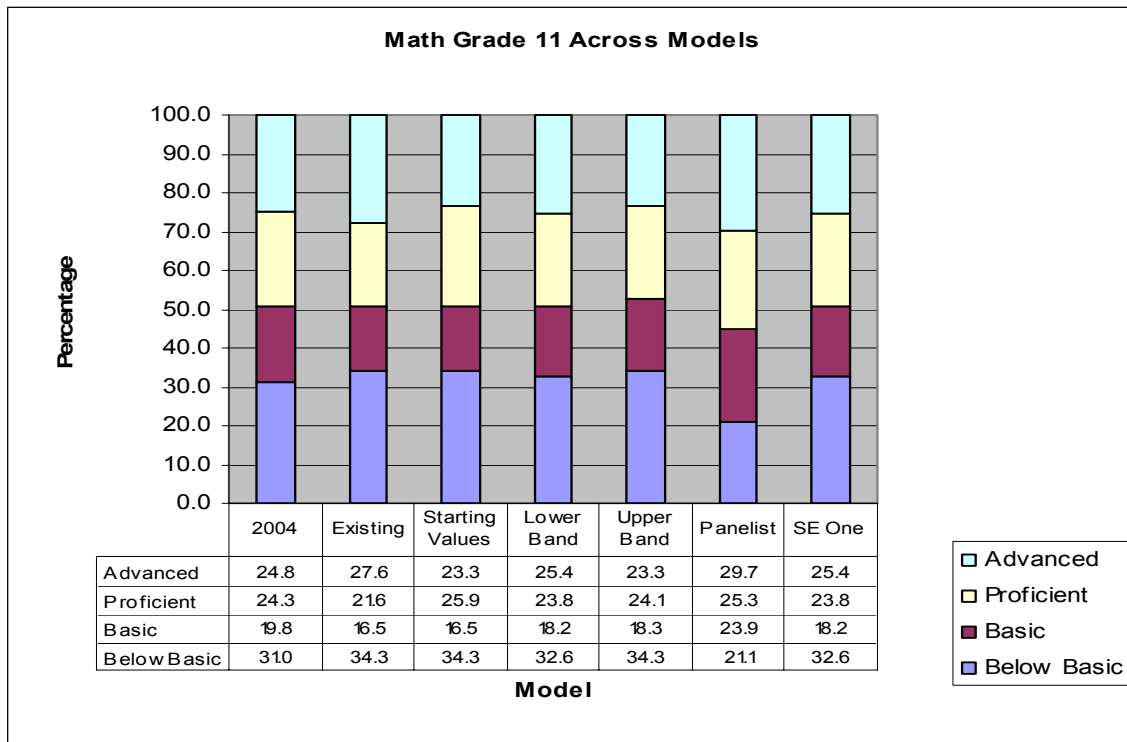


Figure 14.15



SYNTHESIS OF RESULTS

In the cases where the panelists' recommendation fell within a one standard band around the starting values, they were used as the presented value to the State Board. In cases where their recommendations fell outside the error band, the presented value to the State Board was the nearest value. That is, if the panelists' recommendation was above the upper band, it was converted to the value at the upper band. In like manner, if the panelists' recommendation was below the lower band, it was converted to the value at the lower band. In this way, the direction of the panelists' recommendations was maintained, if not always the magnitude.

SCALING AND TRANSFORMATIONS

Table 14-3 shows the linear equations used to convert student scores from the logit metric to the scale score metric and Table 14-4 shows the scale score cutpoints for each grade and subject.

Table 14-3. Conversion Equations

Grade	Subject	Conversion Equation
3	Reading	$Y = 210.0X + 1320.6$
3	Math	$Y = 198.5X + 1355.2$
5	Reading	$Y = 198.8X + 1094.6$
5	Math	$Y = 189.8X + 1134.1$
8	Reading	$Y = 234.82X + 1113.7$
8	Math	$Y = 177.53X + 1182.3$
11	Reading	$Y = 245.45X + 1115.2$
11	Math	$Y = 206.42X + 1203.1$

Table 14-4. Scale Score Cutpoints

Reading				
Performance Level	Grade 3	Grade 5	Grade 8	Grade 11
Advanced	1442 and up	1497 and up	1473 and up	1492 and up
Proficient	1235-1441	1275-1496	1280-1472	1257-1491
Basic	1098-1234	1137-1274	1146-1279	1112-1256
Below Basic	1097 and below	1136 and below	1145 and below	1111 and below
Math				
Performance Level	Grade 3	Grade 5	Grade 8	Grade 11
Advanced	1370 and up	1483 and up	1446 and up	1509 and up
Proficient	1180-1369	1312-1482	1284-1445	1304-1508
Basic	1050-1179	1158-1311	1171-1283	1167-1303
Below Basic	1049 and below	1157 and below	1170 and below	1166 and below

Panelist Evaluation Survey Results

Summary results may be found in Appendix GG. The appendix contains question-by-question summary ratings that reflect the panelists' level of satisfaction with the method, materials, training, process, individual and group judgments and recommendations, facilities, food, and use of time.

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Appendix A:

2005 PSSA Test Book Session Layout Plan

Mathematics

core/common MC items	54
3 core 4 pt OE items	12
Total	66 points

Reading

core/common MC items	40
4 core 3 pt. OE items	12
Total	52 points

The estimated administration time is 150 minutes for reading (including matrix items and embedded field test items). The estimated administration time is 149 minutes for mathematics (including matrix items and embedded field test items.)

Session	Content	Number of MC	MC Item Breakdown		Number of OE	OE Item Breakdown	
1	Mathematics	22	21-Common (Core) items 1-non-calculator Field Test item		2	2-Common (Core) items	
2	Reading	23/24	23-Common (Core) items at grade 5 24-Common (Core) items at grades 8 and 11		2	2-Common (Core) items	
3	Mathematics	22	11-Common (Core) items		2	<u>Forms 1-16</u>	<u>Forms 17-20</u>
			4-Matrix items 7-Field Test items	11- linking items from common/core 2004		1-Matrix 1-Field Test	1-Matrix selected from across forms 1-16 1-Field Test selected from across forms 1-16
4	Reading	16	8-Newly-developed matrix items		2	<u>Forms 1-16</u>	<u>Forms 17-20</u>
			8-Field Test items across 16 forms	8- Matrix items from 2004 (32 items across four forms; four 2004 passages, one passage per form, each with 8 items)		1-Matrix 1-Field Test	1-Matrix selected from across forms 1-16 1-Matrix (Field Test) selected from 2004
5	Mathematics	22	22-Common (Core) items		1	1-Common (Core) item	
6	Reading	16/17	17-Common (Core) items at grade 5 16-Common (Core) items at grades 8 and 11		2	2-Common (Core) items	

Notes: 1) There will be 20 forms. 2) The ruler items may fall in Session 1, 3, or 5. 3) The one non-calculator field test item is in Session 1. This means that there is only one section that will need to be sealed during testing.

Appendix B:

Assessment Anchors within Reporting Categories Summary

Tally Summary Sheet

Grade 5

2005 PSSA

Mathematics

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		A: Number Systems and Operations	Total For Assessment Anchor A.1 Representations, relationships, systems of numbers	18		6	8	24	8	32	24
Total For Assessment Anchor A.2 Understand and use operations	4		4		8	4	12	16	4	3	7
Total For Assessment Anchor A.3 Compute accurately and make reasonable estimates	3					3		3	3		3
Total For Reporting Category A	25		4	6	16	31	20	51	31	5	36
B: Measurement	Total For Assessment Anchor B.1 Measurable attributes, units, systems, processes	2		9	4	11	4	15	11	1	12
	Total For Assessment Anchor B.2 Determine measurements using techniques, tools, formulas	3	4	5		8	4	12	8	1	9
	Total For Reporting Category B	5	4	14	4	19	8	27	19	2	21
C: Geometry	Total For Assessment Anchor C.1 Two- and three-dimensional geometric shapes	6		6	8	12	8	20	12	2	14
	Total For Assessment Anchor C.2 Concepts of transformations or symmetry	2		4	4	6	4	10	6	1	7
	Total For Assessment Anchor C.3 Locate points/describe relationships on coordinate plane	1		5		6		6	6		6
	Total For Reporting Category C	9		15	12	24	12	36	24	3	27

Tally Summary Sheet (continued)
Grade 5

**2005 PSSA
 Mathematics**

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		D: Algebraic Concepts	Total For Assessment Anchor D.1 Understanding patterns, relations, and functions	3		8		11		11	11
Total For Assessment Anchor D.2 Represent and/or analyze mathematical situations	2		4	5	4	7	8	15	7	2	9
Total For Assessment Anchor D.3 Analyze change in various contexts	1			1		2		2	2		2
Total For Reporting Category D	6		4	14	4	20	8	28	20	2	22
E: Data Analysis and Probability	Total For Assessment Anchor E.1 Data analysis	3		4	4	7	4	11	7	1	8
	Total For Assessment Anchor E.2 Statistical methods to analyze data	2		3	4	5	4	9	5	1	6
	Total For Assessment Anchor E.3 Basic concepts of probability or outcomes	4		8	4	12	4	16	12	1	13
	Total For Reporting Category E	9		15	12	24	12	36	24	3	27

Tally Summary Sheet

Grade 8

2005 PSSA

Mathematics

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		A: Numbers and Operations	Total For Assessment Anchor A.1 Representations, relationships, systems of numbers	4		10	4	3	4	7	3
Total For Assessment Anchor A.2 Understand and use operations	1		4	2		2	4	6	2	1	3
Total For Assessment Anchor A.3 Compute accurately and make reasonable estimates	4					4		4	4		4
Total For Reporting Category A	9		4	12	4	9	8	17	9	2	11
B: Measurement	Total For Assessment Anchor B.1 Measurable attributes, units, systems, processes	4		1	4	3	4	7	3	1	4
	Total For Assessment Anchor B.2 Determine measurements using techniques, tools, formulas	6		10	12	15	12	24	15	3	15
	Total For Reporting Category B	10		11	16	18	16	31	18	4	19
C: Geometry	Total For Assessment Anchor C.1 Two- and three-dimensional geometric shapes	5		7	4	9	4	13	9	1	10
	Total For Assessment Anchor C.2 Concepts of transformations or symmetry	4		3		4		4	4		4
	Total For Assessment Anchor C.3 Locate points/describe relationships on coordinate plane	3		3							
	Total For Reporting Category C	12		13	4	13	4	17	13	1	14

Tally Summary Sheet (continued)
Grade 8

**2005 PSSA
Mathematics**

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		D: Algebraic Concepts	Total For Assessment Anchor D.1 Understanding patterns, relations, and functions	6		6		12		12	12
Total For Assessment Anchor D.2 Represent and/or analyze mathematical situations	6		4	8	12	14	16	30	14	4	18
Total For Assessment Anchor D.3 Analyze change in various contexts	This assessment anchor is not assessed at grade 8.										
Total For Assessment Anchor D.4 Describe/model quantitative relationships	3			4		7		7	7		7
Total For Reporting Category D	15		4	18	12	33	16	49	33	4	37
E: Data Analysis and Probability	Total For Assessment Anchor E.1 Data Analysis	3		4	4	7	4	11	7	1	8
	Total For Assessment Anchor E.2 Statistical methods to analyze data	1		2		3		3	3		3
	Total For Assessment Anchor E.3 Basic concepts of probability or outcomes	2	4	3	4	5	8	13	5	2	7
	Total For Assessment Anchor E.4 Inferences, predictions, conclusions based on data	2		1		3		3	3		3
	Total For Reporting Category E	8	4	10	8	18	12	30	18	3	21

Tally Summary Sheet

Grade 11

2005 PSSA

Mathematics

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		A: Numbers and Operations									
	Total For Assessment Anchor A.1 Representations, relationships, systems of numbers	4		6		3		3	3		3
	Total For Assessment Anchor A.2 Understand and use operations	3		3	4	6	4	10	6	1	7
	Total For Assessment Anchor A.3 Compute accurately and make reasonable estimates	2				2		2	2		2
Total For Reporting Category A		9		9	4	11	4	15	11	1	12
B: Measurement											
	Total For Assessment Anchor B.1 Measurable attributes, units, systems, processes	This assessment anchor is not assessed at grade 11.									
	Total For Assessment Anchor B.2 Determine measurements using techniques, tools, formulas	9		9	16	16	16	32	16	4	20
Total For Reporting Category B		9		9	16	16	16	32	16	4	20
C: Geometry											
	Total For Assessment Anchor C.1 Two- and three-dimensional geometric shapes	5	4	8		8	4	12	8	1	9
	Total For Assessment Anchor C.2 Concepts of transformations or symmetry	This assessment anchor is not assessed at grade 11.									
	Total For Assessment Anchor C.3 Locate points/describe relationships on coordinate plane	2		3	4	5	4	9	5	1	6
Total For Reporting Category C		7	4	11	4	13	8	21	13	2	15

Tally Summary Sheet (continued)
Grade 11

**2005 PSSA
Mathematics**

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		D: Algebraic concepts									
	Total For Assessment Anchor D.1 Understanding patterns, relations, and functions	2		2		4		4	4		4
	Total For Assessment Anchor D.2 Represent and/or analyze mathematical situations	13	4	11	4	21	8	29	21	2	23
	Total For Assessment Anchor D.3 Analyze change in various contexts	7		8		15		15	15		15
	Total For Assessment Anchor D.4 Models to represent quantitative relationships			3		2		2	2		2
Total For Reporting Category D		22	4	24	4	42	8	50	42	2	44
E: Data Analysis and Probability											
	Total For Assessment Anchor E.1 Data Analysis	1		1	4	1	4	5	1	1	2
	Total For Assessment Anchor E.2 Statistical methods to analyze data	1		4	4	5	4	9	5	1	6
	Total For Assessment Anchor E.3 Basic concepts of probability or outcomes	2	4	4		3	4	7	3	1	4
	Total For Assessment Anchor E.4 Inferences, predictions, conclusions based on data	3		2		4		4	4		4
Total For Reporting Category E		7	4	11	8	13	12	25	13	3	16

Tally Summary Sheet
Grade 5

2005 PSSA
Reading

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)			
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total	
		A: Comprehension and Reading Skills	Total For Assessment Anchor A.1 Understanding fiction text appropriate to grade level.	17	3	16	3	33	6	39	33	2
Total For Assessment Anchor A.2 Understanding nonfiction text appropriate to grade level.	15		3	13	6	28	9	37	28	3	31	
Total For Reporting Category A			32	6	29	9	61	15	76	61	5	66
B: Interpretation and Analysis of Literature	Total For Assessment Anchor B.1 Identify/compare components within and across text.		6	6	8	6	14	12	26	14	4	18
	Total For Assessment Anchor B.2 Identify and describe how the author uses literary devices to convey meaning.	1		1		2		2	2		2	
	Total For Assessment Anchor B.3 Identify and interpret concepts and organization of nonfiction text.	1		2		3		3	3		3	
	Total For Reporting Category B		8	6	11	6	19	12	31	19	4	23

Tally Summary Sheet
Grade 8

2005 PSSA
Reading

Reporting Category	Assessment Anchor	Student Score (Core Points)		District Level Scores (Matrix Points)		Total Points (Core & Matrix)			Number of Items (Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
		A: Comprehension and Reading Skills	Total For Assessment Anchor A.1	12		14		26		26	26
Understanding fiction text appropriate to grade level.											
Total For Assessment Anchor A.2	17		3	11		28	3	31	28	1	29
Understanding nonfiction text appropriate to grade level.											
Total For Reporting Category A		29	3	25		54	3	57	54	1	55
B: Interpretation and Analysis of Literature	Total For Assessment Anchor B.1	5	3	7	15	12	18	30	12	6	18
	Describe/interpret components within and across texts.										
	Total For Assessment Anchor B.2	4	6	4		8	6	14	8	2	10
	Identify and analyze how the author uses literary devices to convey meaning.										
	Total For Assessment Anchor B.3	2		4		6		6	6		6
Identify and analyze concepts and organization of nonfiction text.											
Total For Reporting Category B		11	9	15	15	26	24	50	26	8	34

Tally Summary Sheet
Grade 11

2005 PSSA
Reading

Reporting Category	Assessment Anchor	Student Score		District Level Scores		Total Points			Number of Items		
		(Core Points)		(Matrix Points)		(Core & Matrix)			(Core & Matrix)		
		MC	OE	MC	OE	MC	OE	Total	MC	OE	Total
A: Comprehension and Reading Skills	Total For Assessment Anchor A.1	9		11		20		20	20		20
	Understanding fiction text appropriate to grade level.										
	Total For Assessment Anchor A.2	18		18	9	36	9	45	36	3	39
	Understanding nonfiction text appropriate to grade level.										
Total For Reporting Category A		27		29	9	56	9	65	56	3	59
B: Interpretation and Analysis of Literature	Total For Assessment Anchor B.1	7	12	5	3	12	15	27	12	5	17
	Analyze components within and across texts.										
	Total For Assessment Anchor B.2	1		1		2		2	2		2
	Analyze the effectiveness of the author's use of literary devices.										
Total For Assessment Anchor B.3	5		5	3	10	3	13	10	1	11	
Interpret and analyze concepts and organization of nonfiction text.											
Total For Reporting Category B		13	12	11	6	24	18	42	24	6	30

Appendix C:
Item Review Form

Item Review Form

Item Review Form

Grade: 5 8 11 Content: Reading Mathematics

Unique ID Number	Content Alignment		Rigor Level Alignment							Technical Design		STATUS
	Anchor (A.1.3, B.2.1, etc.)	Content Limits (A.1.3.2, B.2.1.2)	Grade	Difficulty	Depth of Knowledge	Source of challenge	Correct Answer	Distractors	Graphics	Language Demand	Bias	Overall Judgment
	F=Full P=Partial N=No	Y=Yes N=No	(=) At Grade Level (-) Below (+) Above	E(asy) M(edium) H(ard)	1=recall 2=application 3=strategic thinking	Y=Yes N=No	Y=Yes N=No	Y=Yes N=No	Y=Yes N=No	Y=Yes N=No	Y=Yes N=No	A=Approved AR=Accept w/Revisions M=Move R=Revise or Rewrite

Signature _____ Date _____

Appendix D:
Bias and Sensitivity Comments

BIAS AND SENSITIVITY COMMENTS - MATHEMATICS GRADE 5 - JANUARY 14-15, 2004

Item by last 4 digits	Comment	Action Taken
0535	Are students familiar with “bagel”	No change; bagel is common in grocery stores today
0252	Graph may confuse boys	None; cannot find a source of confusion
0574	Renting ice skating rink; not plausible for some groups (minorities in cities, low SES); some students unfamiliar with term “ice skating rink.”	Context to be changed; not on field-test form
0243	Carnival can have undesirable connotations	To be Changed to “fair”; not on field-test form
0259	Reading too long; very bad for LEP and disabled	To be revised; not on field-test form
2606	Stem in conflict; needs to be either “women or people.”	To be changed to students; not on field-test form
0516	Raffle tickets could be associated with gambling	Schools commonly sell raffle tickets; no change
	General-need greater diversity in names overall	
0527	Use a different job; regionally dependent; urban students do not mow lawns.	Item completely revised; no longer relevant.
0263	Stem word conflict; exercised changes to jogging. Keep same word.	To be changed to “jog” throughout; not on field-test forms
0521	Quiche may be unfamiliar to many; the word is distracting.	To be changed to pie; item not on field-test form
0216	Use another set-up 5 th graders not paying restaurant bills.	Changed context
0765	Typo did doing	Item revised
0045	Stereotyping-Boys all taller than the Girls.	Names changed; item revised
2044	Pictograph figure-male sports stereotype	Pictograph is asexual. No change; item not on field test forms

BIAS AND SENSITIVITY COMMENTS - MATHEMATICS GRADE 8 - JANUARY 14-15, 2004

Item last 4 digits	Comment	Action Taken
2400	Insurance context not appropriate for gr 8	Context to be changed; item not on field-test forms.
2693	Dehumidifier; vocabulary and experiential	Context to be changed; item not on field-test forms.
2429	Too regional for PA students	Revised
	General-Great use of diverse names. Most questions are great—short—to the point, OK for kids with disabilities and LEP	
2638	Cold medicine-cold as being cold; suggest change to flu	Changed to “flu.”
0170	Most countries do not have tracks; very confusing for students coming from other countries	To be changed; lap removed; wording changed so that item is clear for those unfamiliar with a track. Item not on field-test forms.
0716	Very long; limited English proficient kids will be lost with the reading, EVEN if they know the computation.	Item revised.
2044	Most English Language Learners will have no clue what a backpack is.	To be changed backpack to “jacket.” Item not on field test forms.
2650	“Batches and “popper”-2 words based on experience. LEP kids will not know; neither will kids from other countries.	Text simplified and key words emboldened.
2659	“Laps” LEP students will not know “lap” show on diagram.	Item revised.
2656	Kids will have no idea what a gutter is; would need a better picture.	Item revised
0363	Too wordy for disabilities and LEP	Revised
2690	Not realistic--\$11 for a concert for a family and \$1 for beverage.	To be revised to be realistic; item not on field test forms.
0720	LEP will think of “cook” as a verb; use chef	Item completely revised.
0059	Low SES (Socio-econ) can’t eat out 8 times per month	To be revised; not on field-test forms.
0066	No gender needed (waiter); server common terms	To be changed to “server.” Item not on field-test forms.
2067	Baseball players both he; include females	To be changed to “she.” Item not on field-test forms.
2639	Keep gender neutral	Keep “his” refers to William
0316	For gr 8 use middle school	Changed to “middle school.”
0364	Female stereotype; babysitting	Changed to “Peri.”
2692	Mandy; female cashier; stereotype	To be changed to “Mark.” Item not on field-test forms.
2602	Gender should be neutral	English lang. Does not have a neutral pronoun. Item not on field-test forms.
2424	Baseball; his	English does not have neutral pronoun. Changed to Female player
2406	Margerie-use of females stresses stereotype of girls “needing to pass’ mathematics	Item completely revised.
0320	Million should be “millions”	Correct mathematically-no change
0361	Add units to answer selections	To be added; item not on field-test forms.
0066	Tipping not an 8 th grader experience	OK in anchors; item not on field-test forms.
0382 Not on Forms	Same as above	Same as above
0791 Not on Forms	Concern about woman needing to borrow money	No change; shows women can have good credit and able to borrow
2167 Not on Forms	Not realistic; no ground time; cannot instantaneously fly back	Item Revised.
0321 Changed as shown	Answer choices need to be marked with degree indicators	Degree marks added.
2655	Sally in a garden; gender stereotype	No change except to another female name; both genders have gardens
2658	Gender bias female making caramel corn.	Male made another package of popcorn in same grade; no change here.
0791	Concern about woman needing to borrow money	No change; shows women can have good credit and able to borrow

BIAS AND SENSITIVITY COMMENTS - MATHEMATICS GRADE 11 - JANUARY 14-15, 2004

ITEM LAST 4-DIGITS	COMMENT	ACTION TAKEN
0180	Typo, extra o in line 2	Will Correct “to”Item not on Field Test
2248	Fraction format should have horizontal bar	All bars will be typeset horizontally
0185	Negative signs too small for visually impaired	To be enlarged
2102	Same comment as above	Same as above
	Can’t assume Food area has a right angle	Not mathematically necessary
	General--great stems for kids with disabilities and LEP—very clear and to the point.	
2201	Students without experience will make a basis calculation without time zone change.Students with the experience will get confused. Change to same time zone.	Will revise to same time zone.Item not on Field-test form
2225	Too many words for kids with disabilities and LEP. They will get lost with the text versus the problem.	Will revise.Item not on Field-test form
0491	LEP student may get confused between baseball as a ball and as a game.	Revised
0657	Suggest ‘cellular’ instead of mobile phone	Changed to cellular
2214	Too much text; it tests reading skills more than math. Also female eating food associated with dieting	Will revise text and change name to “Vic.” Item not on Field-test form.
2212	Has typos afternoon and after noon. Either use numbers as digits or as words; don’t mix	Will revise and fix afternoon.Item not on Field-test form
	General-Over representation of names commonly used by Anglos. Most males are in leadership roles, as owners, committee chair. Gross under representation of African-Americans Nice subtle us of sports-related items.	Revisions being made accordingly.
0439	Hispanic name used with gardening (migrant worker stereotype.)	Item completely revised; comment no longer relevant.
2241	Females counting calories, dieting gender bias	Will change gender-“Stan” Item not on Field-test form
0747	Hector (Hispanic name) picking apples—migrant worker	Item completely revised; comment no longer relevant.
2802	Brian’s house—over representation of Anglo control. Use a different gender or ethnic group.	To be changed to Berto
2200	Teeter-totter--not a common word anymore and very few on playgrounds now.	Item completely revised; comment no longer relevant
	General (from another committee member) “Although no specific bias was cited; there seem to be an ...can’t read...but looks like there needs to be a reflection of more ethnic groups.	

BIAS AND SENSITIVITY COMMENTS – READING GRADE 5 - JANUARY 2004

Comment	Action Taken
Scungy’s Twins- Item #3547 change correct answer (choice D) from “a young sheep” to “an old sheep.”	Suggest no change be made. The passage describes Scungy as “an old sheep” and would be another correct answer. The correct answer is Choice C.
Tara Lipinski- passage has experiential concerns, “condo, roller rink, Zamboni, axels.”	Suggest no change; the context will help readers understand terms; field test is for trying out.
Dazzling Diamonds- Item #1522 gender bias in options C (kings) and D (women).	Suggest no change to C. It is the correct answer, could change “women” to “miners.” Miners are mentioned in the passage so it would serve as a valid distractor.
The Board- Item #1397 and 1411 suggest changing references to narrator as female to a gender neutral term.	Suggest no change; items are written in a concise manner, attempted edits for gender neutrality made them too wordy.
The Board- Item #1402 concerns about gender identification of the author.	Suggest changing option A to “jealous of fellow classmates.” Change made.
The Board- Item #1408 concerns about gender identification of the author.	Suggest changing stem to: “In this passage, the student has a very important goal to achieve. Identify this goal. Explain how the narrator achieves this goal. Use two details from the passage to support your response.” Change made.
The Board- Item #3383 concerns about gender identification of the author.	Suggest changing stem to: “What does the student learn from breaking the board? Use two details from the passage to support your opinion.” Change made.
The Board- Item #3384 concerns about gender identification of the author.	Suggest changing stem to: “Describe how the student’s feelings affect the passage. Use two examples from the passage to support your response.” Change made.
The Board- Item #1405 concerns about gender identification of the author.	Suggest changing the following distractors: B wants people to stop watching the practice sessions. C knows a better way to achieve the goal. D is confused about what to do next. Change made.
Life in a Salad Bowl- Item #3498 option C (fathers) shows gender bias.	Suggest changing “fathers” to “parents.” Change made.
Snowflake Bentley-Item #3371 option A (his father) shows gender bias.	Suggest changing “his father” to “his parents.” Change made.
Keeping Cool with Crickets- passage “Far East” is Eurocentric term.	Suggest no change as the passage is permissioned.
Antarctica- Item #3512 correct answer, option B is not supported by passage.	Suggest change stem of item to read, “According to the passage, who reached Antarctica first?” Change made.

BIAS AND SENSITIVITY COMMENTS – READING GRADE 8 - JANUARY 2004

Comment	Action Taken
Something Told the Wild Geese-Item #1765, the item stem does not ask a question.	Suggest changing the item stem to:Read the following lines from the poem. “All the sagging orchardsSteamed with amber...”The lines indicate that the orchards are Change made.
The Liberty Bell- Item #1158 option B and Item #1164 option D references are made to George Washington’s birthday.	Suggest no change references relate to information in the passage.
Moving Day- Item #3323 options C and D (Timbuktu and Zanzibar) show ethnic bias.	Suggest no change, these options are places that are mentioned in the passage and serve as plausible distractors.
Staying in the Lines- Item #1471 item should read “The author’s baseball playing...” not “The author’s basketball playing.”	Suggest delete item as the section pertaining to basketball has been edited from the passage. Item deleted.
Staying in the Lines- Item #3377 concerns about the gender identification of the author.	Suggest changing stem to: The author has changed greatly since childhood. Identify one important change. Use examples from the passage to support your response. Change made.
Staying in the Lines- Item #1464 concerns about the gender identification of the author.	Suggest no change. This item is written concisely; trying to alter for gender neutrality causes excessive wordiness.
Morning Mystery- Item #4234 stem identifies the gender of the speaker.	Suggest changing stem to “Upon arriving at the cow pen, which of these words best describes how the speaker feels?” This allows for gender neutrality. Change made.
Friendships are a Journey- Item #1226 concerns about gender identification of the male speaker.	Suggest no change, the item becomes too wordy when attempting to edit and make gender neutral.
Wind, Sand and Stars- Item #1756 concerns about gender identification of the narrator.	Suggest changing distractors as follows:A The narrator is directing the plane into the ocean.B. The dark ocean below the narrator is filled with divers.C. The narrator feels like diving into the sea.D. The narrator can see no lights at all from below. Change made.
Reflections Dental- Item #3551 concerns about gender identification of the speaker.	Suggest changing the stem to: “The speaker’s attitude toward the subject is one of” Change made.

BIAS AND SENSITIVITY COMMENTS – READING GRADE 11 - JANUARY 2004

Comment	Action Taken
A Journey with the Owls- Item #3171 uses the word “magic” in the stem.	Suggest changing stem to “The narrator discovers the joy of” Change made.
A Journey with the Owls- Item #3175 concern about gender identification in the item.	Suggest changing item as follows: The narrator was able to study the owls because the narrator A uses binoculars. B sits quietly and watches. C learns to mimic their calls. D uses a sketchbook for notes. Change made.
Four-Legged Beings- passage uses the term “horsemen” as well as several other references to “men.”	Suggest no change; reflects Native American culture of the time.
Four-Legged Beings- Item 1533 option A “gullible” may be offensive given the plight of Native Americans in the U.S.	Suggest changing “gullible” to “cordial.” Change made.
Coffee and a Roast Beef Sandwich- passage contains racial bias “We serve a dozen ghettos that would otherwise be isolated from each other and from the city.”	Permissions issue; will try to obtain permission to change the wording from “ghettos” to “areas” if and when the passage moves forward to operational status.
Is Working Part-Time For You?- Item #1379 option D “businesses expect better performance than teachers do.” Possibly offensive to teachers.	Suggest changing option D to “businesses expect workers to perform as a faster rate.” Change made.
The Great Egg Heist- Item #3396 concerns about gender identification of the narrator in the item stem.	Suggest changing the stem to: What does the narrator mean by saying Charlotte could “talk wallpaper off walls”? Change made.
Life After High School- Item #932 concern about the word monotonous in option A	Suggest no change; the term is utilized in the passage.

Appendix E:

**Synopsis- PSSA Bias and Sensitivity Committee Meetings
2004-2005**

SYNOPSIS- PSSA BIAS AND SENSITIVITY COMMITTEE MEETINGS 2004-2005

The PSSA Bias and Sensitivity Committee met twice in 2004 to review items for field-testing in Spring 2005. A short, refresher training was provided to experienced members and new members were trained individually. Individual training was followed up by a quiz set of sample items and discussion.

During the first meeting, August 11-13, members read and reviewed items and passages for grades 5, 8, and 11 in reading and mathematics developed by Data Recognition Corporation. Items in reading and mathematics for grade 3 developed by McGraw-Hill Company were also reviewed. The meeting was held at the Data Recognition offices in Harrisburg, Pennsylvania.

The second meeting was conducted at the same location October 5 through 8. Items and passages for grades 4, 6, and 7 in reading and mathematics and stimulus passages with writing items for grades 5, 8, and 11 were reviewed. All items and passages were developed by Data Recognition Corporation.

The items and passages were approved or rejected by a consensual process. Individual comments, suggestions, and concerns were also collected on reporting sheets. These records were turned over to the Data Recognition and McGraw-Hill content directors for review, decision, and action.

The committee composition for each meeting is shown on the charts below.

PSSA 2005 ITEM BIAS AND SENSITIVITY MEMBERS-August 11-13, 2004 Facilitator-Penny Ridgeway, Data Recognition Corporation

Name	Representation	Dates of Attendance
Verona Blaine	African-American Female	Noon 11-13
Raymond Chambers	African-American Male	11-13
Paul Munyofu	African-American Male	12-13
Victor Diaz-Rodriguez	Latino-American Male Special Education	11-12
Carmen Medina	Latino-American Female	11, 13
Amy Feun	Asian-American Female	11-13
Jay Lee	Asian-American Male	11-13
John Delgrotto	Caucasian Male Special Education	11-13
Jay Gift	Caucasian Male (PDE)	11-13

PSSA Bias and Sensitivity Committee-October 5-8, 2004
Facilitator-Penny Ridgeway, Data Recognition Corporation

	Name	Representation	Dates of Attendance
1	Egle Rodriguez	Hispanic Female	5-8
2	Sol Vasquez-Ontero	Hispanic Female	5-8
3	Elaine Raffucci	Hispanic Female	7, 8
4	Raymond Chambers	African-American Male	5-8
5	Paul Munyufu	African-American Male	5-8
6	Verona Blaine	African-American Female	5,6,8
7	Mary Yee	Asian Female	5-7 noon
8	Debbie Wei	Asian Female	5-8
9	John Dellegrotto	Caucasian Male Special Education	5-8

Two Caucasian males were “no shows; several attempts during the meetings were made to encourage their attendance.

Appendix F:

PSSA New Item Review Cards and IVAN Card

PSSA New Item Review Cards and IVAN Card

PSSA New Item Review	
	Item
	51-3174
	Content Area
	Grade Level
	Rpt Category
	Asmt Anchor
	Sub-Anchor
	Eligible Content
	Primary Code
	Passage Title
	Passage ID
	Focus
	Item Type
	Points
	Depth of Knldg
	Est Difficulty
	Answer Key
	Calculator Use
Distractor Analysis-A:	
Distractor Analysis-B:	
Distractor Analysis-C:	
Distractor Analysis-D:	

PSSA New Item Review	
Item	
	51-3173
Content Area	
Grade Level	
Rpt Category	
Asmt Anchor	
Sub-Anchor	
Eligible Content	
Primary Code	
Passage Title	
Passage ID	
Focus	
Item Type	
Points	
Depth of Knldg	
Est Difficulty	
Answer Key	
Calculator Use	

IVAN Item Card

Item content copyright Pennsylvania



Released: No

Item Status: accepted

Item Name	Item Type	Key	Grade	Subject	Report Category	Asmt Anchor	Sub Anchor	Eligible Content	Content Difficulty	DRP	Item Calculator
	MC	1	08	Math	A	3	3	1			No

Depth of Knowledge: 1

2. A list of numbers is shown below.

-5 -4 -3 -2 -1

What is the sum of the numbers shown above?

A -5
B -2
C -1
D 0

Administration

Form Grade	Form Subject	Form Name	Sequence	Form Type	Month	Year	Report Category	Asmt Anchor	Sub-Anchor	Eligible Content	Day	Session	Calculator
08	Math	A		Field Test	May	2004	A	3	3	1	0		No

Statistics Detail

Label	P-Value	Pt. Bis. Corr.
A*	0.696	0.449
B	0.145	-0.375
C	0.084	-0.315
D	0.069	-0.259
Omits	0.005	

Label	Value
N	928
Outfit t	-3.900
Logit	-1.260
Logit SE	0.079

DIF Analysis	Value
White/Black	A-
Eco Disad	A-
Male/Female	B-

Notes:

Accepted by Data Review Committee, August 04

Appendix G:

2005 Field Test Grade 5 Multiple Choice Statistics for Reading

2005 Field Test Grade 5 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F086	D	-0.148	0.029	0.69	0.56	0.021	0.07	0.09	0.13	0.69	-0.23	-0.22	-0.24	0.56	7273	-5.8
2	F086	B	-1.687	0.045	0.91	0.39	0.005	0.02	0.91	0.04	0.02	-0.21	0.39	-0.17	-0.23	6810	1.7
3	F086	A	-0.584	0.033	0.80	0.39	0.005	0.80	0.06	0.03	0.11	0.39	-0.27	-0.22	-0.13	6803	1.3
4	F086	A	-1.557	0.043	0.90	0.50	0.008	0.90	0.03	0.02	0.04	0.50	-0.27	-0.21	-0.29	6785	-7.9
5	F086	B	-0.327	0.032	0.76	0.39	0.004	0.03	0.76	0.05	0.15	-0.29	0.39	-0.30	-0.11	6770	6.1
6	F086	B	-0.979	0.038	0.85	0.50	0.006	0.05	0.85	0.06	0.03	-0.33	0.50	-0.26	-0.17	6774	-3.7
7	F086	C	0.224	0.029	0.68	0.37	0.004	0.13	0.11	0.68	0.07	-0.09	-0.30	0.37	-0.14	6783	6.9
8	F086	A	0.853	0.027	0.56	0.31	0.005	0.56	0.12	0.03	0.29	0.31	-0.19	-0.28	-0.07	6819	9.9
9	F086	D	-0.591	0.034	0.80	0.57	0.006	0.04	0.11	0.04	0.80	-0.27	-0.34	-0.28	0.57	6795	-8.0
10	F086	C	-1.128	0.038	0.86	0.45	0.006	0.04	0.03	0.86	0.07	-0.27	-0.26	0.45	-0.19	6790	-0.6
11	F086	B	0.240	0.029	0.67	0.46	0.005	0.11	0.67	0.08	0.13	-0.23	0.46	-0.25	-0.19	6791	-1.8
12	F086	A	0.320	0.029	0.66	0.33	0.006	0.66	0.03	0.26	0.04	0.33	-0.24	-0.14	-0.18	6773	8.8
13	F086	D	0.550	0.028	0.63	0.44	0.007	0.20	0.07	0.11	0.63	-0.24	-0.32	-0.08	0.44	6771	0.8
14	F086	A	-1.229	0.040	0.87	0.54	0.005	0.87	0.04	0.03	0.05	0.54	-0.29	-0.30	-0.27	6769	-8.8
15	F086	C	-0.484	0.033	0.79	0.54	0.004	0.04	0.12	0.79	0.04	-0.32	-0.32	0.54	-0.22	6750	-6.0
16	F086	A	-0.374	0.032	0.78	0.37	0.010	0.78	0.09	0.08	0.05	0.37	-0.19	-0.17	-0.15	6758	2.9
17	F086	C	0.894	0.028	0.59	0.50	0.006	0.13	0.13	0.59	0.15	-0.33	-0.18	0.50	-0.18	6777	-3.8
18	F086	B	-1.095	0.040	0.87	0.54	0.008	0.08	0.87	0.02	0.02	-0.36	0.54	-0.20	-0.26	6730	-5.1
19	F086	A	0.377	0.029	0.69	0.40	0.008	0.69	0.09	0.14	0.07	0.40	-0.31	-0.13	-0.14	6734	2.0
20	F086	D	-0.841	0.037	0.85	0.56	0.007	0.09	0.03	0.02	0.85	-0.31	-0.31	-0.27	0.56	6707	-8.3
1	F087	A	-1.206	0.036	0.83	0.55	0.021	0.83	0.07	0.03	0.05	0.55	-0.29	-0.23	-0.17	7273	-3.8
2	F087	B	-0.161	0.031	0.74	0.54	0.006	0.03	0.74	0.14	0.08	-0.26	0.54	-0.39	-0.15	6810	-6.8
3	F087	C	-1.579	0.044	0.90	0.46	0.006	0.02	0.03	0.90	0.05	-0.22	-0.26	0.46	-0.24	6803	-4.7
4	F087	B	-1.070	0.038	0.85	0.58	0.008	0.05	0.85	0.06	0.03	-0.29	0.58	-0.31	-0.30	6785	-9.3
5	F087	C	-1.336	0.041	0.88	0.54	0.004	0.05	0.05	0.88	0.02	-0.28	-0.36	0.54	-0.21	6770	-8.3
6	F087	C	-1.035	0.038	0.86	0.50	0.006	0.06	0.03	0.86	0.05	-0.21	-0.29	0.50	-0.27	6774	-4.5
7	F087	B	0.980	0.027	0.53	0.22	0.005	0.05	0.53	0.22	0.19	-0.24	0.22	-0.06	-0.06	6783	9.9
8	F087	B	-0.112	0.030	0.73	0.54	0.004	0.16	0.73	0.03	0.08	-0.35	0.54	-0.24	-0.24	6819	-7.9
9	F087	A	-2.000	0.050	0.93	0.49	0.006	0.93	0.03	0.02	0.02	0.49	-0.24	-0.27	-0.26	6795	-6.4
10	F087	A	-1.576	0.043	0.90	0.40	0.006	0.90	0.02	0.03	0.05	0.40	-0.23	-0.27	-0.16	6790	-0.7
11	F087	B	-0.634	0.034	0.81	0.53	0.005	0.05	0.81	0.09	0.05	-0.28	0.53	-0.29	-0.25	6791	-6.9
12	F087	C	-1.195	0.039	0.87	0.54	0.006	0.03	0.05	0.87	0.05	-0.27	-0.26	0.54	-0.31	6773	-7.7
13	F087	B	-0.759	0.035	0.83	0.55	0.006	0.05	0.83	0.09	0.02	-0.27	0.55	-0.32	-0.26	6771	-7.9
14	F087	A	-0.548	0.034	0.80	0.58	0.006	0.80	0.06	0.05	0.09	0.58	-0.29	-0.30	-0.30	6769	-9.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	F087	A	-0.895	0.037	0.84	0.54	0.003	0.84	0.05	0.08	0.02	0.54	-0.31	-0.30	-0.25	6750	-6.7
16	F087	A	0.677	0.028	0.60	0.39	0.009	0.60	0.26	0.07	0.06	0.39	-0.12	-0.17	-0.31	6758	7.6
17	F087	A	1.325	0.027	0.50	0.37	0.006	0.50	0.03	0.26	0.20	0.37	-0.22	-0.18	-0.15	6777	9.7
18	F087	A	2.073	0.028	0.38	0.29	0.008	0.38	0.31	0.16	0.14	0.29	-0.11	-0.13	-0.06	6730	9.9
19	F087	A	-0.903	0.037	0.86	0.48	0.008	0.86	0.04	0.05	0.04	0.48	-0.26	-0.27	-0.20	6734	-5.6
20	F087	A	-2.106	0.054	0.94	0.48	0.006	0.94	0.02	0.02	0.02	0.48	-0.24	-0.26	-0.23	6707	-6.0
1	F088	D	0.817	0.027	0.52	0.46	0.021	0.16	0.07	0.23	0.52	-0.13	-0.29	-0.12	0.46	7273	5.1
2	F088	D	0.506	0.028	0.63	0.41	0.007	0.24	0.07	0.05	0.63	-0.21	-0.17	-0.23	0.41	6810	5.7
3	F088	D	-1.504	0.043	0.90	0.52	0.006	0.02	0.03	0.05	0.90	-0.25	-0.27	-0.30	0.52	6803	-6.6
4	F088	D	-0.800	0.035	0.83	0.58	0.009	0.02	0.06	0.08	0.83	-0.26	-0.34	-0.30	0.58	6785	-8.5
5	F088	C	-0.315	0.032	0.76	0.56	0.005	0.11	0.05	0.76	0.07	-0.28	-0.31	0.56	-0.27	6770	-8.2
6	F088	A	-1.509	0.044	0.90	0.48	0.007	0.90	0.04	0.02	0.03	0.48	-0.26	-0.26	-0.22	6774	-1.4
7	F088	A	2.354	0.029	0.27	0.13	0.005	0.27	0.06	0.14	0.53	0.13	-0.21	-0.24	0.18	6783	9.9
8	F088	A	-1.129	0.038	0.86	0.47	0.005	0.86	0.05	0.04	0.04	0.47	-0.21	-0.29	-0.24	6819	-2.8
9	F088	C	-1.008	0.037	0.85	0.51	0.006	0.03	0.03	0.85	0.08	-0.26	-0.25	0.51	-0.28	6795	-4.8
10	F088	A	-0.211	0.031	0.75	0.52	0.006	0.75	0.07	0.07	0.11	0.52	-0.26	-0.24	-0.27	6790	-5.4
11	F088	D	0.407	0.028	0.64	0.55	0.005	0.08	0.13	0.14	0.64	-0.21	-0.31	-0.26	0.55	6791	-8.4
12	F088	A	-0.843	0.036	0.83	0.57	0.007	0.83	0.06	0.07	0.03	0.57	-0.26	-0.35	-0.27	6773	-8.2
13	F088	C	0.229	0.029	0.68	0.52	0.006	0.08	0.05	0.68	0.18	-0.30	-0.24	0.52	-0.25	6771	-5.8
14	F088	D	0.001	0.030	0.72	0.58	0.007	0.17	0.08	0.03	0.72	-0.39	-0.23	-0.20	0.58	6769	-7.7
15	F088	C	0.161	0.030	0.70	0.40	0.004	0.09	0.10	0.70	0.11	-0.17	-0.18	0.40	-0.23	6750	4.6
16	F088	A	-0.595	0.034	0.81	0.51	0.010	0.81	0.04	0.07	0.08	0.51	-0.26	-0.25	-0.25	6758	-6.1
17	F088	C	0.332	0.029	0.69	0.43	0.006	0.14	0.07	0.69	0.09	-0.20	-0.28	0.43	-0.17	6777	0.3
18	F088	C	-0.129	0.032	0.77	0.54	0.010	0.04	0.07	0.77	0.11	-0.26	-0.28	0.54	-0.28	6730	-6.8
19	F088	C	-0.145	0.031	0.76	0.48	0.008	0.06	0.08	0.76	0.10	-0.23	-0.27	0.48	-0.21	6734	-4.8
20	F088	B	-0.560	0.034	0.83	0.51	0.007	0.09	0.83	0.05	0.02	-0.27	0.51	-0.25	-0.26	6707	-7.0
1	F089	C	-0.462	0.031	0.74	0.50	0.021	0.07	0.05	0.74	0.12	-0.20	-0.24	0.50	-0.19	7273	-1.6
2	F089	B	-0.074	0.030	0.73	0.60	0.006	0.07	0.73	0.12	0.08	-0.28	0.60	-0.29	-0.33	6810	-9.9
3	F089	B	-0.353	0.032	0.77	0.45	0.006	0.06	0.77	0.11	0.06	-0.22	0.45	-0.18	-0.28	6803	0.3
4	F089	B	-0.100	0.031	0.73	0.49	0.008	0.08	0.73	0.04	0.14	-0.27	0.49	-0.25	-0.23	6785	-2.3
5	F089	B	1.813	0.028	0.37	0.18	0.004	0.37	0.37	0.10	0.15	0.05	0.18	-0.17	-0.13	6770	9.9
6	F089	B	1.730	0.027	0.41	0.12	0.006	0.24	0.41	0.29	0.07	-0.08	0.12	0.13	-0.26	6774	9.9
7	F089	B	-0.396	0.032	0.77	0.49	0.005	0.08	0.77	0.06	0.08	-0.28	0.49	-0.21	-0.24	6783	-3.7
8	F089	C	-1.352	0.041	0.89	0.49	0.005	0.02	0.03	0.89	0.06	-0.27	-0.26	0.49	-0.26	6819	-4.9
9	F089	B	0.993	0.027	0.53	0.35	0.006	0.12	0.53	0.21	0.13	-0.16	0.35	-0.10	-0.22	6795	9.9
10	F089	C	0.925	0.027	0.55	0.38	0.006	0.11	0.27	0.55	0.07	-0.18	-0.13	0.38	-0.25	6790	9.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	F089	B	0.680	0.028	0.59	0.46	0.006	0.25	0.59	0.06	0.09	-0.18	0.46	-0.25	-0.27	6791	0.8
12	F089	C	0.672	0.028	0.60	0.46	0.007	0.18	0.10	0.60	0.11	-0.18	-0.22	0.46	-0.24	6773	0.0
13	F089	D	0.560	0.028	0.63	0.44	0.008	0.15	0.10	0.11	0.63	-0.18	-0.20	-0.23	0.44	6771	2.1
14	F089	B	-1.052	0.038	0.85	0.57	0.006	0.04	0.85	0.05	0.05	-0.25	0.57	-0.27	-0.36	6769	-8.2
15	F089	A	-0.747	0.035	0.83	0.60	0.004	0.83	0.11	0.04	0.02	0.60	-0.42	-0.25	-0.26	6750	-8.7
16	F089	D	1.854	0.028	0.37	0.35	0.010	0.37	0.06	0.20	0.37	-0.05	-0.21	-0.19	0.35	6758	9.9
17	F089	C	0.154	0.030	0.72	0.44	0.006	0.13	0.07	0.72	0.08	-0.13	-0.23	0.44	-0.31	6777	0.9
18	F089	A	0.447	0.029	0.67	0.41	0.009	0.67	0.05	0.16	0.11	0.41	-0.22	-0.16	-0.21	6730	4.1
19	F089	A	0.532	0.028	0.65	0.42	0.009	0.65	0.16	0.09	0.10	0.42	-0.18	-0.25	-0.17	6734	0.9
20	F089	C	-0.050	0.031	0.75	0.54	0.007	0.04	0.13	0.75	0.08	-0.21	-0.37	0.54	-0.18	6707	-5.9
1	F090	B	0.415	0.027	0.60	0.48	0.021	0.09	0.60	0.10	0.19	-0.23	0.48	-0.17	-0.16	7273	3.8
2	F090	A	-1.367	0.041	0.89	0.51	0.006	0.89	0.04	0.03	0.04	0.51	-0.31	-0.21	-0.29	6810	-5.4
3	F090	D	0.386	0.028	0.65	0.54	0.006	0.17	0.11	0.07	0.65	-0.24	-0.23	-0.33	0.54	6803	-6.7
4	F090	C	-0.222	0.031	0.75	0.48	0.008	0.12	0.07	0.75	0.05	-0.18	-0.26	0.48	-0.29	6785	0.1
5	F090	B	0.455	0.028	0.64	0.40	0.005	0.18	0.64	0.06	0.12	-0.18	0.40	-0.22	-0.18	6770	3.7
6	F090	C	-0.490	0.034	0.80	0.49	0.007	0.03	0.08	0.80	0.08	-0.27	-0.24	0.49	-0.25	6774	-3.2
7	F090	B	0.764	0.027	0.57	0.38	0.005	0.24	0.57	0.04	0.13	-0.21	0.38	-0.25	-0.09	6783	8.2
8	F090	C	1.417	0.027	0.45	0.29	0.005	0.22	0.05	0.45	0.28	-0.08	-0.24	0.29	-0.11	6819	9.9
9	F090	A	1.083	0.027	0.52	0.37	0.006	0.52	0.13	0.23	0.12	0.37	-0.22	-0.08	-0.20	6795	9.9
10	F090	A	-0.734	0.035	0.82	0.54	0.006	0.82	0.03	0.04	0.10	0.54	-0.26	-0.23	-0.34	6790	-5.2
11	F090	B	-0.808	0.035	0.83	0.52	0.005	0.09	0.83	0.04	0.05	-0.28	0.52	-0.24	-0.28	6791	-5.7
12	F090	C	-0.234	0.031	0.75	0.54	0.007	0.07	0.08	0.75	0.09	-0.22	-0.30	0.54	-0.29	6773	-7.3
13	F090	A	-0.423	0.033	0.79	0.54	0.007	0.79	0.10	0.05	0.06	0.54	-0.28	-0.34	-0.20	6771	-7.1
14	F090	C	-0.028	0.030	0.72	0.52	0.006	0.09	0.04	0.72	0.14	-0.34	-0.31	0.52	-0.18	6769	-2.7
15	F090	D	0.546	0.028	0.63	0.37	0.004	0.16	0.18	0.03	0.63	-0.16	-0.18	-0.24	0.37	6750	9.9
16	F090	D	-0.383	0.032	0.78	0.53	0.010	0.07	0.09	0.05	0.78	-0.24	-0.23	-0.31	0.53	6758	-5.6
17	F090	C	0.494	0.029	0.66	0.48	0.005	0.11	0.13	0.66	0.09	-0.31	-0.20	0.48	-0.18	6777	-3.2
18	F090	D	-0.749	0.036	0.85	0.51	0.009	0.05	0.07	0.03	0.85	-0.31	-0.22	-0.25	0.51	6730	-5.5
19	F090	A	0.244	0.029	0.71	0.45	0.008	0.71	0.18	0.04	0.06	0.45	-0.20	-0.30	-0.22	6734	-2.9
20	F090	A	-1.129	0.040	0.87	0.55	0.007	0.87	0.03	0.05	0.04	0.55	-0.26	-0.30	-0.28	6707	-7.1
1	F091	D	0.325	0.027	0.61	0.54	0.021	0.05	0.06	0.26	0.61	-0.31	-0.25	-0.19	0.54	7273	-3.5
2	F091	B	0.423	0.028	0.65	0.16	0.007	0.04	0.65	0.04	0.27	-0.23	0.16	-0.24	0.07	6810	9.9
3	F091	D	-1.464	0.042	0.89	0.46	0.006	0.02	0.05	0.03	0.89	-0.25	-0.22	-0.27	0.46	6803	-3.5
4	F091	B	1.496	0.027	0.43	0.28	0.009	0.05	0.43	0.10	0.41	-0.20	0.28	-0.22	-0.02	6785	9.9
5	F091	D	-0.864	0.036	0.83	0.53	0.004	0.05	0.07	0.04	0.83	-0.25	-0.35	-0.20	0.53	6770	-4.3
6	F091	C	0.478	0.028	0.65	0.30	0.006	0.04	0.24	0.65	0.07	-0.22	-0.06	0.30	-0.23	6774	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	F091	C	-0.317	0.031	0.76	0.51	0.005	0.08	0.09	0.76	0.07	-0.24	-0.27	0.51	-0.25	6783	-3.9
8	F091	B	-1.388	0.041	0.89	0.53	0.004	0.02	0.89	0.05	0.04	-0.27	0.53	-0.28	-0.30	6819	-8.2
9	F091	A	0.138	0.029	0.69	0.42	0.006	0.69	0.10	0.07	0.13	0.42	-0.15	-0.22	-0.23	6795	2.4
10	F091	C	0.166	0.029	0.68	0.33	0.006	0.02	0.20	0.68	0.09	-0.26	-0.08	0.33	-0.25	6790	9.9
11	F091	C	1.266	0.027	0.48	0.30	0.005	0.13	0.28	0.48	0.11	-0.17	-0.01	0.30	-0.24	6791	9.9
12	F091	A	1.837	0.028	0.37	0.31	0.007	0.37	0.17	0.27	0.19	0.31	-0.19	-0.07	-0.09	6773	9.9
13	F091	C	-0.964	0.037	0.85	0.50	0.007	0.05	0.03	0.85	0.06	-0.28	-0.26	0.50	-0.24	6771	-5.3
14	F091	B	-1.415	0.042	0.89	0.58	0.006	0.04	0.89	0.03	0.03	-0.34	0.58	-0.28	-0.28	6769	-7.8
15	F091	D	0.305	0.029	0.67	0.46	0.004	0.11	0.14	0.08	0.67	-0.30	-0.11	-0.29	0.46	6750	0.7
16	F091	A	-1.591	0.045	0.91	0.53	0.010	0.91	0.03	0.02	0.04	0.53	-0.29	-0.24	-0.28	6758	-7.0
17	F091	B	1.215	0.027	0.55	0.35	0.006	0.15	0.55	0.07	0.23	-0.24	0.35	-0.24	-0.05	6777	9.9
18	F091	C	-0.837	0.037	0.85	0.55	0.009	0.05	0.05	0.85	0.04	-0.26	-0.30	0.55	-0.28	6730	-8.3
19	F091	B	-0.955	0.037	0.85	0.57	0.009	0.08	0.85	0.04	0.03	-0.34	0.57	-0.29	-0.25	6734	-9.8
20	F091	D	-0.580	0.035	0.82	0.56	0.007	0.04	0.07	0.06	0.82	-0.24	-0.32	-0.29	0.56	6707	-8.5
1	F092	B	-0.521	0.031	0.75	0.62	0.021	0.06	0.75	0.05	0.13	-0.25	0.62	-0.26	-0.31	7273	-9.8
2	F092	D	1.725	0.027	0.39	0.27	0.008	0.42	0.09	0.09	0.39	0.01	-0.25	-0.17	0.27	6810	9.9
3	F092	D	-0.307	0.032	0.76	0.44	0.006	0.05	0.12	0.07	0.76	-0.22	-0.18	-0.26	0.44	6803	2.6
4	F092	B	-0.519	0.033	0.79	0.60	0.009	0.08	0.79	0.04	0.09	-0.33	0.60	-0.29	-0.30	6785	-9.9
5	F092	B	0.617	0.028	0.61	0.29	0.004	0.18	0.61	0.04	0.18	-0.16	0.29	-0.30	-0.03	6770	9.9
6	F092	A	0.042	0.030	0.72	0.41	0.007	0.72	0.10	0.09	0.08	0.41	-0.21	-0.22	-0.14	6774	5.2
7	F092	D	-0.507	0.033	0.79	0.46	0.005	0.08	0.03	0.10	0.79	-0.23	-0.26	-0.23	0.46	6783	0.3
8	F092	D	0.764	0.027	0.58	0.38	0.005	0.11	0.21	0.10	0.58	-0.15	-0.16	-0.22	0.38	6819	7.7
9	F092	D	-1.575	0.044	0.90	0.51	0.006	0.03	0.03	0.03	0.90	-0.26	-0.27	-0.27	0.51	6795	-7.7
10	F092	D	-0.711	0.034	0.81	0.57	0.006	0.03	0.10	0.05	0.81	-0.29	-0.36	-0.24	0.57	6790	-8.0
11	F092	A	1.156	0.027	0.50	0.29	0.006	0.50	0.08	0.10	0.31	0.29	-0.18	-0.26	-0.01	6791	9.9
12	F092	D	-0.141	0.031	0.74	0.50	0.007	0.15	0.05	0.05	0.74	-0.26	-0.23	-0.27	0.50	6773	-1.6
13	F092	A	-0.085	0.031	0.74	0.51	0.007	0.74	0.11	0.09	0.07	0.51	-0.27	-0.26	-0.22	6771	-5.4
14	F092	A	-0.252	0.032	0.75	0.49	0.007	0.75	0.08	0.05	0.11	0.49	-0.18	-0.33	-0.24	6769	-1.0
15	F092	A	-1.049	0.038	0.86	0.43	0.004	0.86	0.06	0.03	0.05	0.43	-0.19	-0.21	-0.27	6750	-0.8
16	F092	B	0.607	0.028	0.61	0.46	0.010	0.13	0.61	0.12	0.13	-0.12	0.46	-0.33	-0.17	6758	-0.3
17	F092	A	0.710	0.028	0.62	0.43	0.006	0.62	0.04	0.14	0.19	0.43	-0.28	-0.29	-0.11	6777	3.2
18	F092	D	-0.420	0.033	0.80	0.49	0.008	0.13	0.04	0.03	0.80	-0.26	-0.25	-0.26	0.49	6730	-4.1
19	F092	D	-0.695	0.035	0.85	0.35	0.008	0.04	0.07	0.03	0.85	-0.18	-0.16	-0.18	0.35	6734	0.5
20	F092	C	0.048	0.031	0.74	0.45	0.007	0.12	0.10	0.74	0.03	-0.15	-0.28	0.45	-0.25	6707	-0.5
1	F093	C	-0.164	0.029	0.69	0.54	0.022	0.07	0.12	0.69	0.10	-0.25	-0.21	0.54	-0.21	7273	-1.7
2	F093	C	-0.173	0.031	0.75	0.37	0.007	0.05	0.03	0.75	0.17	-0.25	-0.27	0.37	-0.13	6810	5.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	F093	C	0.967	0.027	0.54	0.39	0.006	0.15	0.26	0.54	0.05	-0.18	-0.12	0.39	-0.26	6803	8.2
4	F093	C	0.022	0.030	0.71	0.52	0.009	0.11	0.10	0.71	0.07	-0.24	-0.24	0.52	-0.28	6785	-5.0
5	F093	D	0.186	0.029	0.68	0.49	0.005	0.11	0.05	0.16	0.68	-0.24	-0.29	-0.23	0.49	6770	-3.3
6	F093	D	1.629	0.027	0.43	0.31	0.007	0.05	0.11	0.41	0.43	-0.30	-0.26	0.02	0.31	6774	9.9
7	F093	A	-0.581	0.033	0.80	0.46	0.005	0.80	0.04	0.11	0.05	0.46	-0.26	-0.18	-0.30	6783	-0.4
8	F093	B	-1.135	0.038	0.87	0.48	0.005	0.07	0.87	0.04	0.03	-0.26	0.48	-0.26	-0.27	6819	-4.0
9	F093	A	-0.724	0.035	0.82	0.55	0.006	0.82	0.08	0.03	0.07	0.55	-0.24	-0.30	-0.32	6795	-6.8
10	F093	B	-0.096	0.031	0.73	0.49	0.007	0.09	0.73	0.04	0.13	-0.22	0.49	-0.23	-0.28	6790	-2.3
11	F093	A	1.314	0.027	0.47	0.38	0.006	0.47	0.15	0.28	0.10	0.38	-0.15	-0.12	-0.24	6791	9.9
12	F093	B	0.385	0.029	0.65	0.47	0.007	0.07	0.65	0.21	0.06	-0.29	0.47	-0.17	-0.27	6773	-1.3
13	F093	A	-0.520	0.033	0.80	0.47	0.007	0.80	0.03	0.10	0.06	0.47	-0.28	-0.20	-0.27	6771	-1.2
14	F093	B	-0.301	0.032	0.76	0.58	0.007	0.10	0.76	0.08	0.05	-0.33	0.58	-0.26	-0.28	6769	-9.5
15	F093	B	-0.288	0.032	0.77	0.57	0.004	0.06	0.77	0.07	0.10	-0.27	0.57	-0.25	-0.35	6750	-7.5
16	F093	C	0.015	0.030	0.72	0.56	0.010	0.14	0.06	0.72	0.07	-0.28	-0.27	0.56	-0.28	6758	-9.8
17	F093	C	1.082	0.027	0.55	0.38	0.006	0.23	0.09	0.55	0.13	-0.20	-0.21	0.38	-0.09	6777	9.7
18	F093	B	0.096	0.030	0.71	0.58	0.009	0.09	0.71	0.13	0.05	-0.25	0.58	-0.33	-0.27	6730	-8.7
19	F093	B	1.139	0.027	0.55	0.31	0.009	0.19	0.55	0.16	0.09	-0.09	0.31	-0.14	-0.20	6734	9.9
20	F093	D	1.311	0.027	0.52	0.37	0.007	0.26	0.15	0.06	0.52	-0.29	-0.02	-0.14	0.37	6707	9.9

Appendix H:

2005 Field Test Grade 8 Multiple Choice Statistics for Reading

2005 Field Test Grade 8 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F085	A	-0.989	0.032	0.80	0.59	0.018	0.80	0.09	0.05	0.04	0.59	-0.27	-0.25	-0.25	7853	-6.9
2	F085	A	-0.478	0.030	0.76	0.50	0.009	0.76	0.08	0.09	0.07	0.50	-0.29	-0.28	-0.14	7382	-2.8
3	F085	A	-0.173	0.028	0.70	0.44	0.013	0.70	0.10	0.12	0.07	0.44	-0.18	-0.24	-0.17	7363	0.9
4	F085	A	-0.367	0.029	0.74	0.45	0.008	0.74	0.08	0.03	0.13	0.45	-0.28	-0.25	-0.16	7383	-2.2
5	F085	A	-1.447	0.038	0.88	0.39	0.011	0.88	0.06	0.01	0.04	0.39	-0.25	-0.21	-0.11	7364	0.5
6	F085	C	0.298	0.026	0.63	0.45	0.008	0.05	0.31	0.63	0.02	-0.29	-0.25	0.45	-0.17	7361	-2.5
7	F085	D	-1.282	0.037	0.86	0.66	0.009	0.04	0.05	0.04	0.86	-0.34	-0.37	-0.30	0.66	7378	-9.9
8	F085	D	-0.586	0.030	0.77	0.32	0.007	0.07	0.02	0.14	0.77	-0.15	-0.22	-0.15	0.32	7374	5.8
9	F085	C	-0.308	0.029	0.73	0.43	0.008	0.12	0.11	0.73	0.04	-0.31	-0.12	0.43	-0.17	7385	3.1
10	F085	B	0.562	0.026	0.58	0.29	0.009	0.18	0.58	0.11	0.12	-0.12	0.29	-0.14	-0.09	7361	9.9
11	F085	D	-0.400	0.030	0.75	0.46	0.008	0.13	0.03	0.08	0.75	-0.26	-0.27	-0.15	0.46	7350	-1.4
12	F085	C	-0.792	0.032	0.80	0.41	0.008	0.07	0.03	0.80	0.10	-0.26	-0.24	0.41	-0.12	7341	2.6
13	F085	B	-1.135	0.035	0.84	0.26	0.010	0.08	0.84	0.06	0.01	-0.08	0.26	-0.14	-0.13	7315	9.9
14	F085	C	1.582	0.026	0.37	0.35	0.006	0.19	0.23	0.37	0.21	-0.30	-0.07	0.35	0.00	7303	6.9
15	F085	B	-0.138	0.028	0.71	0.54	0.008	0.06	0.71	0.07	0.16	-0.25	0.54	-0.15	-0.36	7292	-7.9
16	F085	D	-0.873	0.033	0.81	0.51	0.007	0.09	0.04	0.05	0.81	-0.24	-0.27	-0.27	0.51	7295	-2.6
17	F085	A	-0.401	0.031	0.84	0.39	0.009	0.84	0.07	0.03	0.06	0.39	-0.25	-0.19	-0.12	7314	-2.6
18	F085	B	0.567	0.026	0.72	0.35	0.009	0.05	0.72	0.20	0.02	-0.29	0.35	-0.11	-0.21	7287	4.3
19	F085	B	1.978	0.027	0.47	0.32	0.010	0.10	0.47	0.32	0.11	-0.13	0.32	-0.08	-0.20	7333	9.9
20	F085	D	-0.594	0.032	0.87	0.51	0.009	0.04	0.05	0.03	0.87	-0.29	-0.25	-0.24	0.51	7347	-9.9
1	F086	A	0.672	0.025	0.52	0.45	0.020	0.52	0.15	0.11	0.20	0.45	-0.19	-0.28	-0.05	7853	2.8
2	F086	B	0.228	0.027	0.64	0.35	0.009	0.13	0.64	0.19	0.04	-0.22	0.35	-0.11	-0.16	7382	9.0
3	F086	B	-1.924	0.044	0.91	0.52	0.012	0.03	0.91	0.03	0.02	-0.28	0.52	-0.27	-0.20	7363	-8.6
4	F086	A	0.057	0.027	0.67	0.37	0.008	0.67	0.04	0.13	0.15	0.37	-0.23	-0.14	-0.17	7383	3.6
5	F086	C	0.482	0.026	0.59	0.39	0.011	0.23	0.05	0.59	0.12	-0.08	-0.34	0.39	-0.18	7364	5.2
6	F086	A	3.108	0.036	0.13	-0.20	0.009	0.13	0.08	0.71	0.07	-0.20	-0.25	0.44	-0.15	7361	9.9
7	F086	C	-0.662	0.031	0.79	0.55	0.009	0.11	0.04	0.79	0.05	-0.30	-0.28	0.55	-0.26	7378	-7.8
8	F086	B	-2.255	0.049	0.93	0.52	0.007	0.04	0.93	0.02	0.01	-0.36	0.52	-0.23	-0.16	7374	-8.1
9	F086	B	1.991	0.028	0.29	0.22	0.008	0.42	0.29	0.05	0.24	-0.05	0.22	-0.29	0.03	7385	9.9
10	F086	B	1.161	0.025	0.45	0.20	0.010	0.02	0.45	0.50	0.02	-0.25	0.20	-0.03	-0.19	7361	9.9
11	F086	A	-0.696	0.031	0.79	0.50	0.008	0.79	0.05	0.10	0.06	0.50	-0.29	-0.23	-0.21	7350	-3.9
12	F086	D	-1.065	0.034	0.84	0.56	0.008	0.05	0.04	0.07	0.84	-0.27	-0.31	-0.26	0.56	7341	-9.9
13	F086	C	-0.422	0.029	0.74	0.36	0.011	0.16	0.02	0.74	0.07	-0.20	-0.22	0.36	-0.11	7315	4.1
14	F086	B	-0.672	0.031	0.78	0.45	0.006	0.13	0.78	0.03	0.06	-0.22	0.45	-0.24	-0.23	7303	-0.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	F086	D	-0.295	0.029	0.73	0.54	0.008	0.17	0.07	0.02	0.73	-0.32	-0.26	-0.23	0.54	7292	-7.2
16	F086	C	0.174	0.027	0.65	0.32	0.008	0.17	0.13	0.65	0.05	-0.08	-0.24	0.32	-0.12	7295	9.9
17	F086	B	-0.014	0.029	0.79	0.45	0.009	0.04	0.79	0.10	0.07	-0.26	0.45	-0.20	-0.21	7314	-8.0
18	F086	B	1.847	0.027	0.49	0.36	0.010	0.19	0.49	0.05	0.26	-0.23	0.36	-0.25	-0.04	7287	9.9
19	F086	D	1.009	0.026	0.65	0.46	0.011	0.25	0.05	0.04	0.65	-0.23	-0.27	-0.18	0.46	7333	1.4
20	F086	A	0.094	0.028	0.79	0.41	0.008	0.79	0.10	0.09	0.02	0.41	-0.24	-0.20	-0.17	7347	-6.6
1	F087	D	-0.482	0.029	0.73	0.56	0.019	0.11	0.04	0.10	0.73	-0.19	-0.25	-0.28	0.56	7853	-4.2
2	F087	C	-0.516	0.030	0.76	0.44	0.010	0.05	0.14	0.76	0.04	-0.25	-0.16	0.44	-0.30	7382	1.4
3	F087	B	-1.596	0.039	0.88	0.54	0.012	0.04	0.88	0.03	0.03	-0.26	0.54	-0.23	-0.29	7363	-8.1
4	F087	C	-1.022	0.034	0.83	0.48	0.008	0.05	0.04	0.83	0.06	-0.24	-0.28	0.48	-0.19	7383	-4.2
5	F087	B	0.154	0.027	0.65	0.46	0.011	0.06	0.65	0.09	0.19	-0.26	0.46	-0.29	-0.12	7364	-4.0
6	F087	C	4.666	0.065	0.03	-0.25	0.009	0.86	0.04	0.03	0.06	0.51	-0.23	-0.25	-0.26	7361	9.9
7	F087	D	-0.726	0.032	0.80	0.48	0.008	0.05	0.03	0.11	0.80	-0.32	-0.23	-0.19	0.48	7378	1.2
8	F087	C	0.787	0.026	0.53	0.20	0.008	0.16	0.11	0.53	0.20	-0.11	-0.07	0.20	-0.05	7374	9.9
9	F087	B	0.727	0.026	0.53	0.36	0.008	0.09	0.53	0.16	0.21	-0.13	0.36	-0.22	-0.10	7385	7.4
10	F087	C	-1.021	0.034	0.83	0.45	0.010	0.02	0.11	0.83	0.03	-0.25	-0.26	0.45	-0.20	7361	-4.1
11	F087	A	-1.042	0.034	0.83	0.41	0.008	0.83	0.07	0.05	0.04	0.41	-0.13	-0.20	-0.26	7350	0.7
12	F087	B	-1.534	0.039	0.88	0.56	0.009	0.04	0.88	0.04	0.03	-0.28	0.56	-0.27	-0.27	7341	-9.9
13	F087	D	-0.150	0.028	0.70	0.44	0.011	0.03	0.23	0.03	0.70	-0.27	-0.21	-0.23	0.44	7315	-0.3
14	F087	D	-1.239	0.036	0.85	0.36	0.007	0.08	0.03	0.03	0.85	-0.11	-0.22	-0.25	0.36	7303	4.7
15	F087	B	0.178	0.027	0.65	0.42	0.010	0.15	0.65	0.09	0.10	-0.18	0.42	-0.24	-0.15	7292	1.3
16	F087	A	-0.303	0.029	0.73	0.49	0.007	0.73	0.09	0.10	0.08	0.49	-0.28	-0.27	-0.14	7295	-2.8
17	F087	A	1.679	0.026	0.50	0.26	0.010	0.50	0.35	0.06	0.08	0.26	-0.00	-0.25	-0.18	7314	9.9
18	F087	C	-0.339	0.030	0.83	0.55	0.009	0.10	0.04	0.83	0.02	-0.32	-0.29	0.55	-0.22	7287	-9.9
19	F087	C	0.546	0.026	0.72	0.41	0.010	0.03	0.04	0.72	0.19	-0.27	-0.30	0.41	-0.14	7333	-2.6
20	F087	C	1.267	0.026	0.60	0.30	0.008	0.02	0.35	0.60	0.02	-0.21	-0.14	0.30	-0.20	7347	9.9
1	F088	B	-1.433	0.035	0.85	0.65	0.019	0.05	0.85	0.06	0.03	-0.35	0.65	-0.26	-0.25	7853	-9.9
2	F088	A	-0.546	0.030	0.77	0.45	0.009	0.77	0.09	0.06	0.07	0.45	-0.21	-0.21	-0.22	7382	-0.7
3	F088	D	-0.115	0.028	0.69	0.38	0.014	0.09	0.07	0.14	0.69	-0.14	-0.19	-0.16	0.38	7363	6.3
4	F088	C	1.835	0.027	0.33	0.28	0.007	0.26	0.38	0.33	0.04	-0.14	-0.03	0.28	-0.19	7383	9.9
5	F088	A	-0.903	0.033	0.82	0.52	0.011	0.82	0.04	0.08	0.05	0.52	-0.26	-0.25	-0.26	7364	-8.0
6	F088	C	-0.569	0.030	0.77	0.48	0.009	0.09	0.08	0.77	0.04	-0.22	-0.20	0.48	-0.27	7361	-4.8
7	F088	A	-1.651	0.041	0.89	0.59	0.009	0.89	0.04	0.03	0.03	0.59	-0.32	-0.30	-0.28	7378	-9.9
8	F088	A	-1.254	0.036	0.85	0.53	0.007	0.85	0.08	0.03	0.03	0.53	-0.29	-0.29	-0.24	7374	-6.8
9	F088	C	0.915	0.025	0.50	0.39	0.010	0.30	0.11	0.50	0.09	-0.04	-0.29	0.39	-0.22	7385	4.9
10	F088	A	-1.437	0.038	0.88	0.52	0.010	0.88	0.04	0.02	0.06	0.52	-0.26	-0.25	-0.27	7361	-8.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	F088	D	-0.901	0.033	0.82	0.56	0.008	0.03	0.11	0.04	0.82	-0.27	-0.28	-0.33	0.56	7350	-7.8
12	F088	A	1.021	0.026	0.48	0.30	0.010	0.48	0.07	0.22	0.23	0.30	-0.26	-0.07	-0.08	7341	9.9
13	F088	A	-0.477	0.030	0.75	0.41	0.011	0.75	0.06	0.13	0.05	0.41	-0.21	-0.12	-0.27	7315	4.5
14	F088	A	-0.771	0.032	0.80	0.48	0.006	0.80	0.14	0.03	0.03	0.48	-0.30	-0.24	-0.16	7303	-4.5
15	F088	B	0.764	0.026	0.53	0.40	0.009	0.13	0.53	0.22	0.11	-0.23	0.40	-0.14	-0.13	7292	3.9
16	F088	A	-0.960	0.033	0.82	0.52	0.006	0.82	0.03	0.03	0.12	0.52	-0.29	-0.26	-0.27	7295	-4.6
17	F088	A	-0.604	0.032	0.85	0.54	0.009	0.85	0.05	0.06	0.03	0.54	-0.24	-0.30	-0.26	7314	-9.9
18	F088	B	0.823	0.026	0.67	0.38	0.009	0.05	0.67	0.23	0.04	-0.21	0.38	-0.13	-0.29	7287	6.5
19	F088	D	0.049	0.028	0.79	0.49	0.011	0.06	0.03	0.11	0.79	-0.21	-0.30	-0.23	0.49	7333	-9.9
20	F088	C	1.043	0.026	0.64	0.46	0.008	0.07	0.15	0.64	0.13	-0.26	-0.18	0.46	-0.21	7347	1.6
1	F089	D	-1.280	0.034	0.83	0.65	0.019	0.03	0.08	0.05	0.83	-0.27	-0.34	-0.27	0.65	7853	-9.9
2	F089	C	-1.525	0.039	0.88	0.54	0.009	0.04	0.03	0.88	0.04	-0.25	-0.28	0.54	-0.27	7382	-9.2
3	F089	C	-1.091	0.034	0.83	0.51	0.012	0.03	0.08	0.83	0.04	-0.26	-0.27	0.51	-0.20	7363	-5.5
4	F089	C	-0.125	0.028	0.71	0.51	0.008	0.09	0.08	0.71	0.12	-0.17	-0.29	0.51	-0.27	7383	-4.6
5	F089	B	-0.060	0.028	0.69	0.32	0.011	0.09	0.69	0.17	0.03	-0.10	0.32	-0.16	-0.18	7364	7.2
6	F089	D	-0.230	0.028	0.72	0.59	0.009	0.06	0.14	0.08	0.72	-0.29	-0.26	-0.30	0.59	7361	-9.9
7	F089	B	-1.614	0.040	0.89	0.54	0.008	0.02	0.89	0.05	0.04	-0.23	0.54	-0.29	-0.30	7378	-6.9
8	F089	D	-0.884	0.033	0.81	0.50	0.007	0.05	0.04	0.10	0.81	-0.22	-0.26	-0.28	0.50	7374	-4.2
9	F089	D	-0.487	0.030	0.76	0.54	0.007	0.08	0.09	0.06	0.76	-0.25	-0.24	-0.31	0.54	7385	-8.1
10	F089	C	-0.894	0.033	0.82	0.51	0.010	0.05	0.05	0.82	0.08	-0.30	-0.25	0.51	-0.20	7361	-5.9
11	F089	C	-0.134	0.028	0.70	0.57	0.008	0.04	0.14	0.70	0.10	-0.25	-0.31	0.57	-0.26	7350	-9.9
12	F089	A	0.893	0.026	0.51	0.26	0.008	0.51	0.21	0.17	0.11	0.26	0.00	-0.26	-0.02	7341	9.9
13	F089	D	-1.873	0.043	0.91	0.56	0.011	0.03	0.03	0.02	0.91	-0.27	-0.28	-0.29	0.56	7315	-9.0
14	F089	A	-1.670	0.041	0.89	0.51	0.007	0.89	0.02	0.05	0.03	0.51	-0.23	-0.26	-0.27	7303	-6.5
15	F089	B	0.011	0.028	0.68	0.38	0.009	0.09	0.68	0.10	0.12	-0.19	0.38	-0.12	-0.20	7292	6.9
16	F089	A	-0.291	0.029	0.73	0.48	0.007	0.73	0.12	0.13	0.02	0.48	-0.28	-0.21	-0.25	7295	-2.0
17	F089	B	0.999	0.026	0.64	0.47	0.010	0.21	0.64	0.09	0.06	-0.19	0.47	-0.26	-0.21	7314	0.3
18	F089	A	1.843	0.027	0.47	0.30	0.010	0.47	0.17	0.11	0.24	0.30	-0.05	-0.19	-0.12	7287	9.9
19	F089	A	-0.620	0.032	0.85	0.60	0.010	0.85	0.07	0.04	0.04	0.60	-0.34	-0.31	-0.24	7333	-9.9
20	F089	C	2.042	0.027	0.44	0.33	0.008	0.29	0.11	0.44	0.15	-0.16	-0.21	0.33	-0.02	7347	9.9
1	F090	D	-0.646	0.030	0.75	0.60	0.019	0.07	0.07	0.09	0.75	-0.31	-0.30	-0.19	0.60	7853	-7.6
2	F090	C	0.017	0.027	0.68	0.53	0.009	0.16	0.08	0.68	0.08	-0.22	-0.28	0.53	-0.26	7382	-7.1
3	F090	A	-1.072	0.034	0.83	0.45	0.012	0.83	0.03	0.05	0.08	0.45	-0.24	-0.27	-0.15	7363	-1.8
4	F090	B	0.578	0.026	0.58	0.41	0.007	0.25	0.58	0.05	0.11	-0.17	0.41	-0.24	-0.17	7383	3.0
5	F090	C	-0.439	0.030	0.75	0.49	0.011	0.14	0.05	0.75	0.05	-0.19	-0.26	0.49	-0.32	7364	-5.7
6	F090	A	-0.433	0.030	0.75	0.50	0.009	0.75	0.06	0.08	0.09	0.50	-0.26	-0.22	-0.23	7361	-5.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	F090	C	-1.178	0.036	0.85	0.49	0.008	0.04	0.08	0.85	0.03	-0.30	-0.22	0.49	-0.24	7378	-3.3
8	F090	B	-2.013	0.045	0.92	0.49	0.007	0.02	0.92	0.03	0.03	-0.26	0.49	-0.24	-0.26	7374	-7.0
9	F090	B	-1.027	0.034	0.83	0.52	0.008	0.07	0.83	0.06	0.04	-0.25	0.52	-0.28	-0.25	7385	-7.6
10	F090	A	-0.369	0.029	0.75	0.28	0.010	0.75	0.16	0.05	0.04	0.28	-0.06	-0.20	-0.17	7361	9.9
11	F090	C	0.857	0.026	0.52	0.46	0.008	0.24	0.22	0.52	0.02	-0.28	-0.13	0.46	-0.21	7350	-1.7
12	F090	B	-1.604	0.040	0.89	0.48	0.008	0.03	0.89	0.04	0.03	-0.27	0.48	-0.23	-0.19	7341	-4.5
13	F090	D	-1.603	0.040	0.88	0.60	0.011	0.02	0.04	0.04	0.88	-0.27	-0.30	-0.32	0.60	7315	-9.9
14	F090	D	-1.962	0.045	0.91	0.52	0.006	0.03	0.02	0.04	0.91	-0.22	-0.24	-0.31	0.52	7303	-6.8
15	F090	A	0.425	0.026	0.60	0.45	0.010	0.60	0.15	0.14	0.10	0.45	-0.17	-0.23	-0.20	7292	-1.2
16	F090	D	-0.633	0.031	0.78	0.52	0.007	0.04	0.08	0.10	0.78	-0.25	-0.21	-0.30	0.52	7295	-4.7
17	F090	B	0.299	0.027	0.75	0.43	0.010	0.16	0.75	0.06	0.02	-0.20	0.43	-0.24	-0.22	7314	-5.9
18	F090	B	-0.020	0.029	0.80	0.40	0.010	0.07	0.80	0.10	0.02	-0.16	0.40	-0.24	-0.21	7287	-6.5
19	F090	C	0.522	0.027	0.73	0.46	0.010	0.05	0.10	0.73	0.12	-0.25	-0.25	0.46	-0.17	7333	-7.3
20	F090	A	-0.265	0.030	0.82	0.58	0.008	0.82	0.09	0.06	0.02	0.58	-0.31	-0.31	-0.26	7347	-9.9
1	F091	A	0.267	0.026	0.60	0.37	0.020	0.60	0.14	0.11	0.12	0.37	-0.12	-0.23	-0.04	7853	9.9
2	F091	D	0.544	0.026	0.58	0.47	0.009	0.20	0.05	0.16	0.58	-0.24	-0.25	-0.16	0.47	7382	-3.0
3	F091	C	-0.124	0.028	0.69	0.50	0.012	0.24	0.04	0.69	0.02	-0.28	-0.28	0.50	-0.22	7363	-5.1
4	F091	C	0.643	0.026	0.56	0.35	0.008	0.07	0.10	0.56	0.26	-0.19	-0.22	0.35	-0.08	7383	8.4
5	F091	A	0.172	0.027	0.65	0.35	0.011	0.65	0.10	0.21	0.03	0.35	-0.16	-0.15	-0.18	7364	6.3
6	F091	D	-0.244	0.029	0.72	0.48	0.009	0.07	0.10	0.10	0.72	-0.20	-0.19	-0.28	0.48	7361	-4.4
7	F091	B	-0.958	0.034	0.83	0.37	0.008	0.04	0.83	0.10	0.03	-0.19	0.37	-0.17	-0.20	7378	4.7
8	F091	C	-0.498	0.030	0.76	0.35	0.008	0.06	0.06	0.76	0.12	-0.17	-0.24	0.35	-0.11	7374	7.7
9	F091	D	-0.954	0.033	0.82	0.59	0.008	0.05	0.05	0.08	0.82	-0.26	-0.30	-0.32	0.59	7385	-9.9
10	F091	C	-0.691	0.031	0.79	0.52	0.010	0.04	0.05	0.79	0.10	-0.26	-0.30	0.52	-0.22	7361	-6.9
11	F091	B	-1.045	0.034	0.83	0.55	0.008	0.03	0.83	0.04	0.09	-0.28	0.55	-0.27	-0.29	7350	-8.3
12	F091	A	-0.348	0.029	0.74	0.34	0.009	0.74	0.05	0.07	0.13	0.34	-0.24	-0.22	-0.05	7341	7.2
13	F091	B	-0.276	0.029	0.72	0.38	0.011	0.07	0.72	0.18	0.02	-0.30	0.38	-0.10	-0.23	7315	6.1
14	F091	C	-0.862	0.033	0.81	0.46	0.007	0.01	0.16	0.81	0.02	-0.23	-0.29	0.46	-0.24	7303	-0.9
15	F091	D	0.141	0.027	0.66	0.50	0.009	0.06	0.21	0.06	0.66	-0.26	-0.23	-0.24	0.50	7292	-5.9
16	F091	D	-0.692	0.031	0.79	0.53	0.007	0.04	0.06	0.11	0.79	-0.30	-0.27	-0.25	0.53	7295	-6.6
17	F091	C	1.418	0.026	0.57	0.31	0.009	0.14	0.02	0.57	0.26	-0.06	-0.25	0.31	-0.16	7314	9.9
18	F091	A	-0.861	0.034	0.90	0.54	0.009	0.90	0.03	0.03	0.04	0.54	-0.27	-0.26	-0.29	7287	-9.9
19	F091	C	-0.863	0.034	0.88	0.42	0.010	0.04	0.05	0.88	0.02	-0.17	-0.23	0.42	-0.23	7333	-9.7
20	F091	B	-0.056	0.029	0.81	0.45	0.008	0.06	0.81	0.09	0.04	-0.24	0.45	-0.25	-0.16	7347	-9.2
1	F092	A	-0.235	0.028	0.69	0.48	0.020	0.69	0.09	0.17	0.03	0.48	-0.21	-0.17	-0.24	7853	0.8
2	F092	A	-0.500	0.030	0.76	0.48	0.010	0.76	0.10	0.08	0.06	0.48	-0.24	-0.17	-0.29	7382	-3.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	F092	A	0.268	0.027	0.62	0.44	0.012	0.62	0.13	0.21	0.04	0.44	-0.25	-0.12	-0.29	7363	0.5
4	F092	B	0.805	0.026	0.53	0.39	0.008	0.28	0.53	0.14	0.04	-0.15	0.39	-0.16	-0.25	7383	7.0
5	F092	B	0.520	0.026	0.58	0.45	0.011	0.04	0.58	0.25	0.12	-0.31	0.45	-0.16	-0.23	7364	-0.6
6	F092	C	-0.156	0.028	0.71	0.44	0.009	0.10	0.13	0.71	0.05	-0.13	-0.21	0.44	-0.27	7361	-0.2
7	F092	A	0.646	0.026	0.57	0.13	0.009	0.57	0.06	0.31	0.05	0.13	-0.09	0.09	-0.27	7378	9.9
8	F092	D	0.376	0.026	0.61	0.45	0.009	0.11	0.09	0.19	0.61	-0.20	-0.26	-0.16	0.45	7374	-0.5
9	F092	B	1.582	0.026	0.36	0.28	0.009	0.19	0.36	0.37	0.07	-0.12	0.28	-0.06	-0.15	7385	9.9
10	F092	D	0.191	0.027	0.65	0.35	0.010	0.06	0.05	0.24	0.65	-0.26	-0.27	-0.06	0.35	7361	9.5
11	F092	B	-0.720	0.032	0.79	0.61	0.008	0.07	0.79	0.07	0.06	-0.32	0.61	-0.30	-0.28	7350	-9.9
12	F092	C	-0.149	0.028	0.70	0.44	0.009	0.03	0.04	0.70	0.22	-0.26	-0.24	0.44	-0.20	7341	-0.6
13	F092	D	-0.405	0.029	0.74	0.46	0.011	0.12	0.11	0.03	0.74	-0.21	-0.23	-0.23	0.46	7315	-1.8
14	F092	D	-1.783	0.042	0.90	0.46	0.007	0.02	0.05	0.02	0.90	-0.25	-0.22	-0.25	0.46	7303	-3.5
15	F092	C	-0.035	0.028	0.69	0.52	0.009	0.13	0.11	0.69	0.06	-0.27	-0.23	0.52	-0.24	7292	-8.0
16	F092	B	-0.047	0.028	0.69	0.55	0.007	0.14	0.69	0.09	0.07	-0.26	0.55	-0.27	-0.27	7295	-9.5
17	F092	B	-0.405	0.031	0.83	0.46	0.010	0.07	0.83	0.04	0.05	-0.24	0.46	-0.25	-0.17	7314	-8.5
18	F092	A	0.070	0.028	0.79	0.53	0.009	0.79	0.11	0.04	0.06	0.53	-0.30	-0.20	-0.27	7287	-9.9
19	F092	C	0.551	0.026	0.71	0.35	0.010	0.03	0.20	0.71	0.05	-0.28	-0.10	0.35	-0.21	7333	4.8
20	F092	B	1.092	0.026	0.63	0.43	0.009	0.06	0.63	0.23	0.08	-0.22	0.43	-0.11	-0.34	7347	6.4

Appendix I:

**2005 Field Test Grade 11 Multiple Choice Statistics for
Reading**

2005 Field Test Grade 11 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F085	D	0.007	0.028	0.64	0.43	0.015	0.21	0.05	0.10	0.64	-0.19	-0.20	-0.17	0.43	6890	1.8
2	F085	B	-1.795	0.045	0.90	0.45	0.009	0.02	0.90	0.05	0.03	-0.20	0.45	-0.25	-0.19	6546	-2.0
3	F085	C	-1.182	0.037	0.84	0.54	0.011	0.10	0.03	0.84	0.03	-0.31	-0.27	0.54	-0.19	6555	-5.6
4	F085	D	-0.561	0.032	0.76	0.31	0.008	0.06	0.02	0.16	0.76	-0.24	-0.29	-0.04	0.31	6526	9.9
5	F085	C	-0.351	0.031	0.72	0.49	0.009	0.13	0.07	0.72	0.07	-0.20	-0.29	0.49	-0.21	6520	-1.6
6	F085	C	0.495	0.028	0.59	0.15	0.008	0.04	0.32	0.59	0.04	-0.12	-0.03	0.15	-0.08	6532	9.9
7	F085	B	-0.884	0.034	0.80	0.40	0.010	0.07	0.80	0.03	0.09	-0.20	0.40	-0.20	-0.17	6529	3.9
8	F085	C	0.882	0.028	0.52	0.29	0.012	0.22	0.04	0.52	0.21	-0.07	-0.23	0.29	-0.11	6532	9.9
9	F085	A	-1.499	0.040	0.87	0.51	0.011	0.87	0.03	0.07	0.02	0.51	-0.32	-0.24	-0.20	6535	-4.3
10	F085	A	0.183	0.029	0.64	0.37	0.007	0.64	0.03	0.31	0.01	0.37	-0.25	-0.19	-0.19	6521	9.6
11	F085	C	-2.218	0.051	0.93	0.48	0.010	0.02	0.03	0.93	0.02	-0.24	-0.25	0.48	-0.18	6488	-2.8
12	F085	B	0.622	0.028	0.54	0.28	0.011	0.28	0.54	0.10	0.06	-0.05	0.28	-0.18	-0.16	6528	9.9
13	F085	C	-0.389	0.031	0.74	0.47	0.011	0.08	0.10	0.74	0.07	-0.23	-0.32	0.47	-0.09	6521	-2.5
14	F085	D	0.747	0.027	0.52	0.32	0.010	0.25	0.11	0.11	0.52	-0.07	-0.18	-0.15	0.32	6496	9.9
15	F085	B	-1.686	0.043	0.89	0.37	0.010	0.02	0.89	0.03	0.05	-0.18	0.37	-0.19	-0.12	6489	4.4
16	F085	A	0.229	0.028	0.61	0.28	0.010	0.61	0.29	0.07	0.02	0.28	-0.12	-0.15	-0.15	6496	9.9
17	F085	B	1.160	0.028	0.60	0.42	0.011	0.08	0.60	0.16	0.15	-0.30	0.42	-0.07	-0.20	6513	9.9
18	F085	B	-0.216	0.032	0.82	0.47	0.010	0.13	0.82	0.03	0.02	-0.27	0.47	-0.25	-0.19	6507	-9.5
19	F085	B	-1.550	0.043	0.93	0.41	0.008	0.04	0.93	0.02	0.01	-0.22	0.41	-0.20	-0.15	6541	-9.2
20	F085	A	-0.334	0.032	0.83	0.43	0.008	0.83	0.09	0.05	0.03	0.43	-0.23	-0.24	-0.13	6497	-2.9
1	F086	B	-0.689	0.031	0.75	0.43	0.016	0.07	0.75	0.08	0.08	-0.23	0.43	-0.21	-0.13	6890	2.6
2	F086	B	-0.236	0.031	0.72	0.47	0.009	0.03	0.72	0.04	0.20	-0.32	0.47	-0.29	-0.18	6546	0.9
3	F086	D	-0.451	0.031	0.74	0.49	0.011	0.14	0.06	0.05	0.74	-0.21	-0.20	-0.29	0.49	6555	-0.8
4	F086	C	-0.084	0.030	0.68	0.43	0.009	0.14	0.09	0.68	0.08	-0.15	-0.25	0.43	-0.21	6526	0.4
5	F086	B	-0.158	0.030	0.69	0.50	0.009	0.06	0.69	0.17	0.07	-0.26	0.50	-0.25	-0.19	6520	-4.2
6	F086	B	0.529	0.028	0.58	0.48	0.011	0.07	0.58	0.11	0.22	-0.29	0.48	-0.24	-0.15	6532	-2.5
7	F086	A	-0.541	0.032	0.75	0.46	0.011	0.75	0.08	0.12	0.04	0.46	-0.22	-0.23	-0.22	6529	-1.7
8	F086	C	-1.145	0.037	0.84	0.54	0.012	0.04	0.10	0.84	0.02	-0.25	-0.32	0.54	-0.20	6532	-6.2
9	F086	D	-0.335	0.031	0.72	0.45	0.011	0.15	0.08	0.03	0.72	-0.20	-0.22	-0.24	0.45	6535	0.0
10	F086	A	-1.307	0.038	0.85	0.54	0.009	0.85	0.04	0.04	0.06	0.54	-0.28	-0.34	-0.19	6521	-3.5
11	F086	B	-0.921	0.035	0.81	0.37	0.010	0.04	0.81	0.13	0.02	-0.15	0.37	-0.19	-0.18	6488	3.7
12	F086	D	1.113	0.027	0.45	0.34	0.011	0.11	0.31	0.13	0.45	-0.19	-0.01	-0.24	0.34	6528	9.9
13	F086	D	0.282	0.029	0.63	0.49	0.010	0.18	0.09	0.09	0.63	-0.19	-0.25	-0.22	0.49	6521	-2.5
14	F086	A	0.295	0.028	0.61	0.31	0.011	0.61	0.09	0.05	0.24	0.31	-0.21	-0.20	-0.05	6496	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	F086	B	0.354	0.028	0.60	0.31	0.011	0.03	0.60	0.03	0.33	-0.27	0.31	-0.27	-0.06	6489	9.9
16	F086	D	0.138	0.029	0.63	0.51	0.009	0.07	0.26	0.04	0.63	-0.20	-0.30	-0.23	0.51	6496	-4.3
17	F086	D	0.606	0.029	0.69	0.54	0.010	0.12	0.12	0.06	0.69	-0.20	-0.25	-0.32	0.54	6513	-7.6
18	F086	C	0.340	0.029	0.74	0.44	0.012	0.11	0.09	0.74	0.04	-0.23	-0.16	0.44	-0.23	6507	-3.8
19	F086	B	-0.012	0.030	0.78	0.56	0.010	0.07	0.78	0.11	0.03	-0.23	0.56	-0.36	-0.20	6541	-9.9
20	F086	A	-1.097	0.038	0.89	0.57	0.008	0.89	0.05	0.03	0.02	0.57	-0.33	-0.30	-0.21	6497	-9.9
1	F087	C	-0.498	0.030	0.72	0.48	0.014	0.07	0.13	0.72	0.07	-0.24	-0.21	0.48	-0.19	6890	-1.1
2	F087	C	-1.641	0.043	0.89	0.50	0.010	0.02	0.07	0.89	0.01	-0.23	-0.30	0.50	-0.19	6546	-4.2
3	F087	D	0.777	0.028	0.52	0.35	0.012	0.33	0.07	0.07	0.52	-0.08	-0.18	-0.25	0.35	6555	9.9
4	F087	D	-0.351	0.031	0.72	0.50	0.009	0.15	0.07	0.06	0.72	-0.24	-0.25	-0.23	0.50	6526	-2.9
5	F087	A	0.218	0.029	0.62	0.44	0.010	0.62	0.07	0.24	0.06	0.44	-0.22	-0.20	-0.21	6520	1.8
6	F087	B	-0.328	0.031	0.73	0.42	0.009	0.12	0.73	0.11	0.03	-0.19	0.42	-0.22	-0.19	6532	2.7
7	F087	B	0.186	0.029	0.63	0.50	0.011	0.15	0.63	0.07	0.14	-0.17	0.50	-0.31	-0.22	6529	-3.3
8	F087	A	-0.785	0.034	0.80	0.54	0.012	0.80	0.04	0.12	0.03	0.54	-0.25	-0.29	-0.25	6532	-3.5
9	F087	C	1.652	0.028	0.35	0.28	0.012	0.10	0.28	0.35	0.26	-0.15	-0.11	0.28	-0.03	6535	9.9
10	F087	C	-1.199	0.037	0.84	0.49	0.009	0.06	0.03	0.84	0.06	-0.28	-0.28	0.49	-0.16	6521	-0.3
11	F087	D	0.237	0.028	0.63	0.34	0.011	0.16	0.12	0.09	0.63	-0.15	-0.11	-0.17	0.34	6488	9.0
12	F087	D	1.334	0.028	0.40	0.41	0.011	0.16	0.16	0.27	0.40	-0.22	-0.19	-0.06	0.41	6528	4.4
13	F087	A	1.432	0.028	0.41	0.24	0.011	0.41	0.07	0.18	0.34	0.24	-0.14	-0.15	0.00	6521	9.9
14	F087	B	1.888	0.029	0.29	0.21	0.010	0.18	0.29	0.31	0.20	-0.15	0.21	-0.04	0.02	6496	9.9
15	F087	D	0.037	0.029	0.66	0.41	0.011	0.15	0.05	0.13	0.66	-0.13	-0.23	-0.20	0.41	6489	3.4
16	F087	B	-0.400	0.031	0.72	0.50	0.009	0.17	0.72	0.05	0.04	-0.21	0.50	-0.29	-0.26	6496	-3.2
17	F087	D	1.300	0.028	0.58	0.45	0.011	0.05	0.26	0.10	0.58	-0.16	-0.27	-0.14	0.45	6513	6.5
18	F087	C	0.605	0.029	0.71	0.35	0.013	0.15	0.04	0.71	0.09	-0.15	-0.21	0.35	-0.12	6507	7.8
19	F087	D	1.078	0.028	0.63	0.27	0.009	0.04	0.28	0.04	0.63	-0.25	-0.02	-0.24	0.27	6541	9.9
20	F087	C	-0.303	0.032	0.83	0.49	0.008	0.02	0.07	0.83	0.07	-0.28	-0.16	0.49	-0.30	6497	-9.2
1	F088	B	-1.018	0.033	0.80	0.50	0.014	0.11	0.80	0.05	0.04	-0.23	0.50	-0.26	-0.20	6890	-4.1
2	F088	C	-0.743	0.034	0.79	0.49	0.010	0.02	0.06	0.79	0.11	-0.28	-0.27	0.49	-0.20	6546	-2.0
3	F088	C	-0.356	0.031	0.73	0.20	0.012	0.08	0.12	0.73	0.06	-0.06	-0.04	0.20	-0.12	6555	9.9
4	F088	B	-0.678	0.033	0.77	0.49	0.009	0.05	0.77	0.03	0.14	-0.25	0.49	-0.32	-0.22	6526	-2.3
5	F088	C	-0.242	0.030	0.70	0.52	0.010	0.10	0.07	0.70	0.12	-0.22	-0.25	0.52	-0.25	6520	-6.2
6	F088	B	0.621	0.028	0.56	0.44	0.009	0.12	0.56	0.11	0.20	-0.19	0.44	-0.14	-0.23	6532	1.7
7	F088	C	-0.846	0.034	0.80	0.52	0.011	0.05	0.09	0.80	0.06	-0.23	-0.28	0.52	-0.24	6529	-5.9
8	F088	A	0.389	0.029	0.61	0.45	0.013	0.61	0.10	0.15	0.13	0.45	-0.25	-0.14	-0.20	6532	3.3
9	F088	B	-1.242	0.037	0.84	0.55	0.012	0.03	0.84	0.09	0.02	-0.24	0.55	-0.32	-0.26	6535	-7.7
10	F088	B	-0.547	0.032	0.76	0.49	0.008	0.11	0.76	0.07	0.06	-0.20	0.49	-0.25	-0.26	6521	-1.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	F088	C	0.064	0.029	0.66	0.24	0.010	0.07	0.16	0.66	0.11	-0.14	-0.07	0.24	-0.07	6488	9.9
12	F088	B	-0.265	0.030	0.71	0.44	0.011	0.04	0.71	0.17	0.08	-0.23	0.44	-0.21	-0.20	6528	-0.6
13	F088	C	0.464	0.028	0.59	0.24	0.011	0.26	0.06	0.59	0.07	0.02	-0.23	0.24	-0.18	6521	9.9
14	F088	C	0.438	0.028	0.58	0.44	0.011	0.12	0.12	0.58	0.17	-0.20	-0.16	0.44	-0.18	6496	-0.0
15	F088	A	-0.541	0.032	0.76	0.45	0.012	0.76	0.04	0.07	0.13	0.45	-0.25	-0.25	-0.14	6489	0.5
16	F088	B	-0.603	0.032	0.75	0.54	0.009	0.13	0.75	0.07	0.04	-0.24	0.54	-0.29	-0.26	6496	-6.7
17	F088	C	0.170	0.030	0.77	0.49	0.011	0.09	0.09	0.77	0.04	-0.17	-0.30	0.49	-0.24	6513	-6.6
18	F088	B	0.416	0.029	0.74	0.42	0.011	0.16	0.74	0.06	0.04	-0.17	0.42	-0.21	-0.25	6507	-1.2
19	F088	D	0.794	0.028	0.67	0.47	0.010	0.12	0.06	0.14	0.67	-0.15	-0.27	-0.26	0.47	6541	-1.4
20	F088	A	0.609	0.028	0.70	0.47	0.009	0.70	0.06	0.06	0.17	0.47	-0.26	-0.27	-0.17	6497	-0.6
1	F089	A	-1.479	0.037	0.85	0.60	0.014	0.85	0.04	0.06	0.04	0.60	-0.29	-0.29	-0.28	6890	-9.9
2	F089	D	-0.139	0.030	0.70	0.46	0.010	0.06	0.13	0.10	0.70	-0.20	-0.17	-0.27	0.46	6546	0.1
3	F089	C	-0.749	0.033	0.78	0.45	0.012	0.08	0.09	0.78	0.04	-0.17	-0.20	0.45	-0.28	6555	4.5
4	F089	C	-1.136	0.036	0.83	0.52	0.009	0.08	0.06	0.83	0.03	-0.30	-0.22	0.52	-0.26	6526	-5.0
5	F089	D	0.291	0.028	0.61	0.44	0.010	0.07	0.09	0.22	0.61	-0.29	-0.21	-0.13	0.44	6520	0.9
6	F089	A	0.079	0.029	0.66	0.47	0.009	0.66	0.04	0.24	0.06	0.47	-0.24	-0.25	-0.23	6532	1.7
7	F089	D	-0.247	0.030	0.71	0.53	0.012	0.05	0.12	0.11	0.71	-0.21	-0.27	-0.26	0.53	6529	-5.7
8	F089	D	-1.165	0.038	0.84	0.56	0.012	0.04	0.04	0.07	0.84	-0.26	-0.30	-0.25	0.56	6532	-5.7
9	F089	C	-0.604	0.032	0.76	0.52	0.012	0.06	0.10	0.76	0.07	-0.29	-0.24	0.52	-0.20	6535	-4.8
10	F089	A	-0.859	0.035	0.80	0.48	0.008	0.80	0.03	0.10	0.07	0.48	-0.29	-0.22	-0.22	6521	1.2
11	F089	B	-1.163	0.037	0.84	0.45	0.010	0.05	0.84	0.02	0.08	-0.18	0.45	-0.21	-0.25	6488	-0.8
12	F089	A	0.371	0.028	0.59	0.40	0.011	0.59	0.11	0.04	0.24	0.40	-0.16	-0.26	-0.17	6528	3.9
13	F089	D	-0.535	0.032	0.76	0.58	0.011	0.09	0.06	0.08	0.76	-0.30	-0.30	-0.24	0.58	6521	-8.9
14	F089	C	0.159	0.028	0.63	0.40	0.010	0.13	0.07	0.63	0.16	-0.19	-0.22	0.40	-0.13	6496	5.3
15	F089	B	-0.182	0.030	0.70	0.49	0.011	0.08	0.70	0.17	0.04	-0.25	0.49	-0.20	-0.23	6489	-2.2
16	F089	C	0.007	0.029	0.65	0.49	0.009	0.05	0.10	0.65	0.19	-0.20	-0.26	0.49	-0.22	6496	-3.7
17	F089	C	0.381	0.029	0.74	0.44	0.011	0.10	0.05	0.74	0.10	-0.17	-0.24	0.44	-0.21	6513	-2.4
18	F089	D	1.030	0.028	0.64	0.44	0.011	0.19	0.05	0.10	0.64	-0.12	-0.29	-0.24	0.44	6507	5.4
19	F089	D	0.759	0.028	0.67	0.50	0.010	0.07	0.13	0.12	0.67	-0.22	-0.26	-0.21	0.50	6541	-3.7
20	F089	C	-0.260	0.032	0.83	0.40	0.008	0.07	0.04	0.83	0.04	-0.21	-0.16	0.40	-0.18	6497	-4.7
1	F090	B	-0.752	0.032	0.76	0.52	0.014	0.10	0.76	0.08	0.06	-0.21	0.52	-0.26	-0.22	6890	-2.8
2	F090	A	0.576	0.028	0.57	0.31	0.010	0.57	0.04	0.03	0.35	0.31	-0.27	-0.26	-0.07	6546	9.9
3	F090	C	-0.602	0.032	0.76	0.55	0.012	0.16	0.02	0.76	0.05	-0.29	-0.24	0.55	-0.30	6555	-7.0
4	F090	B	-0.470	0.031	0.74	0.54	0.009	0.08	0.74	0.12	0.05	-0.31	0.54	-0.25	-0.23	6526	-6.7
5	F090	B	1.785	0.029	0.32	0.08	0.010	0.09	0.32	0.09	0.49	-0.16	0.08	-0.17	0.16	6520	9.9
6	F090	B	1.100	0.028	0.47	0.36	0.009	0.33	0.47	0.05	0.15	-0.24	0.36	-0.17	-0.03	6532	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	F090	D	-1.457	0.040	0.87	0.53	0.011	0.03	0.04	0.05	0.87	-0.28	-0.27	-0.23	0.53	6529	-6.1
8	F090	A	0.043	0.030	0.67	0.39	0.013	0.67	0.12	0.07	0.13	0.39	-0.21	-0.29	-0.05	6532	9.9
9	F090	B	-0.381	0.031	0.73	0.46	0.012	0.05	0.73	0.04	0.17	-0.29	0.46	-0.30	-0.15	6535	0.1
10	F090	B	-0.649	0.033	0.77	0.56	0.008	0.08	0.77	0.07	0.07	-0.25	0.56	-0.31	-0.25	6521	-5.5
11	F090	C	0.063	0.029	0.66	0.24	0.010	0.07	0.22	0.66	0.04	-0.21	-0.03	0.24	-0.07	6488	9.9
12	F090	D	-0.458	0.031	0.74	0.54	0.011	0.05	0.14	0.06	0.74	-0.26	-0.30	-0.21	0.54	6528	-5.5
13	F090	B	1.209	0.028	0.45	0.18	0.011	0.25	0.45	0.19	0.11	0.02	0.18	-0.09	-0.11	6521	9.9
14	F090	C	-0.402	0.031	0.73	0.52	0.010	0.07	0.13	0.73	0.06	-0.24	-0.23	0.52	-0.28	6496	-8.5
15	F090	D	0.762	0.028	0.52	0.23	0.012	0.21	0.09	0.17	0.52	0.08	-0.19	-0.15	0.23	6489	9.9
16	F090	B	-1.582	0.040	0.87	0.55	0.009	0.05	0.87	0.04	0.03	-0.29	0.55	-0.27	-0.24	6496	-6.5
17	F090	B	-0.024	0.031	0.79	0.50	0.013	0.08	0.79	0.08	0.03	-0.27	0.50	-0.20	-0.26	6513	-8.3
18	F090	A	0.346	0.029	0.74	0.47	0.011	0.74	0.08	0.09	0.08	0.47	-0.20	-0.22	-0.22	6507	-5.7
19	F090	C	-0.176	0.031	0.80	0.60	0.009	0.07	0.08	0.80	0.04	-0.30	-0.32	0.60	-0.24	6541	-9.9
20	F090	B	-0.849	0.036	0.88	0.53	0.008	0.02	0.88	0.05	0.04	-0.21	0.53	-0.28	-0.28	6497	-9.9
1	F091	D	1.869	0.029	0.29	0.25	0.015	0.11	0.10	0.49	0.29	-0.07	-0.19	0.01	0.25	6890	9.9
2	F091	C	0.556	0.028	0.58	0.41	0.010	0.03	0.19	0.58	0.19	-0.25	-0.09	0.41	-0.25	6546	5.3
3	F091	D	-0.494	0.032	0.75	0.57	0.013	0.09	0.07	0.08	0.75	-0.23	-0.29	-0.27	0.57	6555	-6.8
4	F091	D	-0.705	0.033	0.78	0.62	0.008	0.08	0.07	0.07	0.78	-0.24	-0.35	-0.33	0.62	6526	-9.9
5	F091	B	-0.351	0.031	0.72	0.47	0.010	0.05	0.72	0.17	0.05	-0.25	0.47	-0.19	-0.25	6520	-1.2
6	F091	A	0.745	0.028	0.54	0.31	0.009	0.54	0.31	0.09	0.05	0.31	0.01	-0.28	-0.25	6532	9.9
7	F091	A	-1.577	0.041	0.88	0.55	0.011	0.88	0.03	0.04	0.04	0.55	-0.30	-0.30	-0.22	6529	-7.4
8	F091	B	-1.513	0.041	0.88	0.57	0.012	0.03	0.88	0.04	0.04	-0.30	0.57	-0.28	-0.24	6532	-7.0
9	F091	A	-0.980	0.035	0.81	0.53	0.012	0.81	0.05	0.09	0.04	0.53	-0.27	-0.26	-0.24	6535	-5.6
10	F091	D	0.139	0.029	0.65	0.59	0.009	0.10	0.13	0.11	0.65	-0.19	-0.33	-0.28	0.59	6521	-9.9
11	F091	A	0.679	0.028	0.54	0.40	0.010	0.54	0.17	0.15	0.14	0.40	-0.18	-0.18	-0.11	6488	3.3
12	F091	B	0.221	0.028	0.62	0.52	0.011	0.19	0.62	0.15	0.03	-0.29	0.52	-0.20	-0.23	6528	-6.0
13	F091	C	1.074	0.028	0.47	0.27	0.012	0.08	0.22	0.47	0.22	-0.22	-0.04	0.27	-0.08	6521	9.9
14	F091	D	0.883	0.027	0.49	0.48	0.012	0.10	0.29	0.11	0.49	-0.23	-0.12	-0.27	0.48	6496	-3.4
15	F091	C	0.416	0.028	0.59	0.35	0.012	0.17	0.14	0.59	0.09	-0.06	-0.19	0.35	-0.16	6489	9.9
16	F091	C	-1.088	0.035	0.82	0.58	0.009	0.09	0.04	0.82	0.04	-0.37	-0.23	0.58	-0.23	6496	-9.9
17	F091	C	0.003	0.031	0.79	0.54	0.011	0.05	0.08	0.79	0.08	-0.29	-0.20	0.54	-0.30	6513	-9.9
18	F091	C	-0.380	0.033	0.84	0.52	0.011	0.05	0.06	0.84	0.04	-0.25	-0.24	0.52	-0.27	6507	-9.9
19	F091	C	-0.717	0.035	0.86	0.57	0.009	0.06	0.03	0.86	0.04	-0.31	-0.28	0.57	-0.27	6541	-9.9
20	F091	B	-1.211	0.039	0.90	0.55	0.008	0.03	0.90	0.04	0.02	-0.28	0.55	-0.29	-0.24	6497	-9.9
1	F092	A	-0.548	0.030	0.73	0.43	0.015	0.73	0.14	0.05	0.07	0.43	-0.12	-0.28	-0.18	6890	5.9
2	F092	A	-1.938	0.047	0.91	0.52	0.010	0.91	0.03	0.03	0.03	0.52	-0.24	-0.29	-0.23	6546	-6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	F092	B	-1.724	0.043	0.89	0.51	0.012	0.03	0.89	0.04	0.03	-0.27	0.51	-0.21	-0.26	6555	-4.3
4	F092	B	-0.514	0.032	0.75	0.50	0.009	0.03	0.75	0.04	0.17	-0.26	0.50	-0.27	-0.25	6526	-3.5
5	F092	C	0.100	0.029	0.65	0.45	0.010	0.10	0.11	0.65	0.14	-0.21	-0.22	0.45	-0.17	6520	0.8
6	F092	C	0.257	0.029	0.63	0.47	0.009	0.11	0.07	0.63	0.18	-0.09	-0.29	0.47	-0.26	6532	0.7
7	F092	C	-1.275	0.038	0.85	0.51	0.011	0.02	0.07	0.85	0.05	-0.24	-0.26	0.51	-0.26	6529	-3.1
8	F092	D	0.294	0.029	0.63	0.45	0.013	0.11	0.09	0.16	0.63	-0.22	-0.23	-0.15	0.45	6532	3.3
9	F092	B	1.021	0.027	0.47	0.25	0.013	0.13	0.47	0.26	0.13	-0.05	0.25	-0.02	-0.21	6535	9.9
10	F092	B	0.608	0.028	0.56	0.41	0.009	0.20	0.56	0.06	0.17	-0.16	0.41	-0.27	-0.15	6521	5.9
11	F092	C	-1.080	0.036	0.83	0.40	0.010	0.03	0.03	0.83	0.10	-0.29	-0.24	0.40	-0.10	6488	4.2
12	F092	C	-0.924	0.034	0.81	0.54	0.011	0.06	0.07	0.81	0.05	-0.21	-0.35	0.54	-0.24	6528	-7.6
13	F092	C	0.215	0.029	0.64	0.47	0.011	0.06	0.13	0.64	0.17	-0.19	-0.25	0.47	-0.19	6521	-1.1
14	F092	B	0.340	0.028	0.60	0.37	0.011	0.27	0.60	0.05	0.07	-0.09	0.37	-0.27	-0.23	6496	6.7
15	F092	C	0.818	0.028	0.51	0.42	0.012	0.09	0.26	0.51	0.13	-0.20	-0.05	0.42	-0.29	6489	4.0
16	F092	A	-0.129	0.029	0.68	0.41	0.010	0.68	0.20	0.03	0.08	0.41	-0.14	-0.25	-0.24	6496	3.7
17	F092	C	1.628	0.028	0.51	0.42	0.011	0.21	0.23	0.51	0.04	-0.12	-0.20	0.42	-0.24	6513	9.9
18	F092	B	2.125	0.029	0.42	0.37	0.012	0.24	0.42	0.15	0.18	-0.08	0.37	-0.23	-0.10	6507	9.9
19	F092	A	1.231	0.028	0.60	0.39	0.009	0.60	0.13	0.19	0.08	0.39	-0.18	-0.13	-0.21	6541	9.9
20	F092	B	-1.241	0.039	0.90	0.59	0.008	0.02	0.90	0.05	0.02	-0.27	0.59	-0.35	-0.27	6497	-9.9

Appendix J:

**2005 Field Test Grade 5 Multiple Choice Statistics for
Mathematics**

2005 Field Test Grade 5 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F005	D	0.988	0.026	0.57	0.59	0.001	0.08	0.31	0.04	0.57	-0.24	-0.42	-0.15	0.59	7392	-9.9
2	F005	A	0.817	0.028	0.62	0.54	0.002	0.62	0.07	0.06	0.25	0.54	-0.23	-0.16	-0.37	6809	-7.9
3	F005	D	-0.175	0.032	0.78	0.45	0.001	0.01	0.01	0.20	0.78	-0.16	-0.10	-0.39	0.45	6819	-3.8
4	F005	D	1.360	0.027	0.51	0.51	0.001	0.05	0.13	0.31	0.51	-0.11	-0.22	-0.34	0.51	6794	-6.2
5	F005	B	1.077	0.027	0.55	0.51	0.002	0.20	0.55	0.14	0.11	-0.24	0.51	-0.20	-0.28	6775	-6.2
6	F005	C	0.424	0.028	0.68	0.46	0.001	0.07	0.14	0.68	0.11	-0.20	-0.20	0.46	-0.30	6795	-4.6
7	F005	C	0.454	0.028	0.68	0.32	0.001	0.05	0.18	0.68	0.09	-0.16	-0.10	0.32	-0.25	6791	7.5
8	F005	C	-0.651	0.036	0.85	0.35	0.001	0.02	0.03	0.85	0.10	-0.18	-0.19	0.35	-0.22	6820	2.5
9	F005	C	-0.852	0.038	0.87	0.38	0.001	0.06	0.04	0.87	0.04	-0.21	-0.19	0.38	-0.23	6803	-1.8
10	F005	B	1.073	0.027	0.57	0.38	0.001	0.03	0.57	0.10	0.30	-0.08	0.38	-0.35	-0.15	6802	3.5
11	F005	D	0.286	0.030	0.72	0.40	0.001	0.20	0.01	0.07	0.72	-0.35	-0.10	-0.09	0.40	6795	0.1
12	F005	B	-0.663	0.037	0.86	0.41	0.001	0.02	0.86	0.07	0.05	-0.18	0.41	-0.19	-0.31	6792	-2.2
13	F005	D	0.158	0.030	0.73	0.48	0.003	0.11	0.09	0.06	0.73	-0.35	-0.19	-0.16	0.48	6782	-4.2
14	F005	C	-0.573	0.035	0.83	0.45	0.001	0.06	0.06	0.83	0.06	-0.25	-0.21	0.45	-0.26	6784	-4.8
15	F005	C	0.267	0.030	0.72	0.50	0.001	0.05	0.13	0.72	0.11	-0.22	-0.38	0.50	-0.15	6754	-4.5
16	F005	B	0.703	0.028	0.65	0.39	0.001	0.22	0.65	0.07	0.06	-0.14	0.39	-0.27	-0.26	6779	4.2
17	F005	D	0.148	0.030	0.73	0.42	0.002	0.19	0.01	0.07	0.73	-0.37	-0.10	-0.10	0.42	6779	-0.7
18	F005	B	-0.672	0.037	0.85	0.42	0.001	0.02	0.85	0.07	0.06	-0.20	0.42	-0.18	-0.32	6753	-2.3
19	F005	D	0.258	0.030	0.73	0.49	0.001	0.11	0.09	0.06	0.73	-0.37	-0.20	-0.16	0.49	6734	-4.3
20	F005	C	-0.565	0.036	0.84	0.45	0.001	0.05	0.05	0.84	0.06	-0.25	-0.21	0.45	-0.27	6725	-4.0
1	F067	D	-0.829	0.035	0.85	0.48	0.002	0.06	0.06	0.03	0.85	-0.27	-0.27	-0.23	0.48	7392	-5.6
2	F067	D	0.296	0.030	0.71	0.49	0.002	0.06	0.06	0.17	0.71	-0.20	-0.31	-0.25	0.49	6809	-3.2
3	F067	D	-0.589	0.035	0.83	0.44	0.001	0.07	0.03	0.06	0.83	-0.38	-0.20	-0.11	0.44	6819	-2.5
4	F067	B	0.022	0.031	0.75	0.51	0.002	0.08	0.75	0.07	0.10	-0.28	0.51	-0.25	-0.27	6794	-6.1
5	F067	A	0.619	0.028	0.64	0.58	0.002	0.64	0.17	0.17	0.02	0.58	-0.40	-0.23	-0.25	6775	-9.9
6	F067	D	-0.107	0.031	0.77	0.44	0.001	0.08	0.07	0.08	0.77	-0.22	-0.22	-0.24	0.44	6795	-4.1
7	F067	B	-1.133	0.041	0.89	0.40	0.002	0.05	0.89	0.03	0.03	-0.23	0.40	-0.20	-0.22	6791	-2.7
8	F067	A	1.400	0.027	0.51	0.45	0.004	0.51	0.11	0.14	0.24	0.45	-0.26	-0.10	-0.24	6820	-1.5
9	F067	C	0.256	0.029	0.72	0.50	0.001	0.07	0.18	0.72	0.04	-0.37	-0.23	0.50	-0.22	6803	-6.0
10	F067	A	0.098	0.030	0.75	0.15	0.001	0.75	0.09	0.04	0.12	0.15	-0.22	-0.11	0.07	6802	9.9
11	F067	B	-0.131	0.032	0.79	0.49	0.002	0.09	0.79	0.09	0.03	-0.18	0.49	-0.35	-0.27	6795	-5.8
12	F067	B	-1.722	0.052	0.94	0.35	0.002	0.02	0.94	0.03	0.01	-0.25	0.35	-0.18	-0.14	6792	-2.7
13	F067	A	0.117	0.030	0.74	0.45	0.003	0.74	0.10	0.07	0.10	0.45	-0.22	-0.27	-0.21	6782	-4.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
14	F067	B	-0.625	0.035	0.84	0.45	0.002	0.09	0.84	0.04	0.03	-0.29	0.45	-0.22	-0.22	6784	-4.4
15	F067	B	0.851	0.028	0.61	0.46	0.002	0.14	0.61	0.14	0.11	-0.23	0.46	-0.22	-0.20	6754	-2.1
16	F067	A	-1.588	0.050	0.93	0.40	0.001	0.93	0.02	0.02	0.02	0.40	-0.23	-0.24	-0.19	6779	-5.2
17	F067	C	-0.418	0.034	0.80	0.45	0.002	0.04	0.04	0.80	0.11	-0.20	-0.26	0.45	-0.25	6779	-1.2
18	F067	D	-0.007	0.031	0.75	0.54	0.001	0.10	0.07	0.07	0.75	-0.32	-0.26	-0.26	0.54	6753	-6.8
19	F067	B	1.101	0.027	0.59	0.48	0.002	0.11	0.59	0.07	0.24	-0.12	0.48	-0.15	-0.37	6734	-2.5
20	F067	C	-0.309	0.034	0.79	0.52	0.001	0.09	0.05	0.79	0.06	-0.29	-0.23	0.52	-0.30	6725	-3.7
1	F068	C	0.468	0.027	0.66	0.53	0.002	0.09	0.20	0.66	0.05	-0.29	-0.28	0.53	-0.25	7392	-7.6
2	F068	C	0.742	0.028	0.64	0.55	0.003	0.13	0.14	0.64	0.09	-0.30	-0.29	0.55	-0.20	6809	-8.5
3	F068	C	-2.195	0.060	0.95	0.32	0.001	0.02	0.01	0.95	0.02	-0.19	-0.18	0.32	-0.16	6819	-2.5
4	F068	D	0.718	0.028	0.63	0.42	0.002	0.06	0.25	0.06	0.63	-0.27	-0.16	-0.27	0.42	6794	2.3
5	F068	C	-0.065	0.031	0.76	0.51	0.003	0.06	0.10	0.76	0.09	-0.25	-0.24	0.51	-0.31	6775	-7.8
6	F068	C	0.414	0.029	0.68	0.41	0.001	0.05	0.11	0.68	0.16	-0.23	-0.25	0.41	-0.16	6795	-0.0
7	F068	A	-0.965	0.039	0.87	0.46	0.002	0.87	0.05	0.02	0.06	0.46	-0.24	-0.23	-0.27	6791	-6.9
8	F068	C	-0.276	0.033	0.81	0.56	0.002	0.09	0.07	0.81	0.03	-0.33	-0.36	0.56	-0.16	6820	-9.4
9	F068	A	0.065	0.030	0.75	0.32	0.001	0.75	0.16	0.06	0.03	0.32	-0.19	-0.17	-0.15	6803	5.0
10	F068	B	-0.057	0.031	0.77	0.48	0.001	0.16	0.77	0.04	0.03	-0.28	0.48	-0.29	-0.24	6802	-5.4
11	F068	A	-1.315	0.045	0.91	0.43	0.002	0.91	0.03	0.03	0.03	0.43	-0.23	-0.22	-0.26	6795	-5.7
12	F068	D	1.717	0.027	0.45	0.35	0.002	0.33	0.12	0.10	0.45	-0.15	-0.16	-0.16	0.35	6792	9.4
13	F068	D	1.276	0.026	0.52	0.37	0.002	0.06	0.35	0.07	0.52	-0.26	-0.09	-0.29	0.37	6782	5.0
14	F068	C	0.948	0.027	0.58	0.39	0.003	0.21	0.06	0.58	0.15	-0.24	-0.02	0.39	-0.24	6784	0.8
15	F068	C	0.794	0.028	0.62	0.40	0.002	0.19	0.04	0.62	0.14	-0.07	-0.18	0.40	-0.36	6754	1.4
16	F068	D	0.787	0.028	0.64	0.52	0.001	0.14	0.16	0.06	0.64	-0.23	-0.33	-0.20	0.52	6779	-6.4
17	F068	B	-0.318	0.033	0.79	0.39	0.004	0.11	0.79	0.06	0.03	-0.21	0.39	-0.21	-0.21	6779	3.2
18	F068	D	1.387	0.027	0.55	0.13	0.001	0.12	0.22	0.12	0.55	-0.07	0.03	-0.16	0.13	6753	-9.9
19	F068	C	0.946	0.028	0.61	0.36	0.002	0.21	0.09	0.61	0.08	-0.16	-0.22	0.36	-0.16	6734	-5.7
20	F068	C	1.627	0.027	0.49	0.40	0.003	0.20	0.07	0.49	0.25	-0.14	-0.19	0.40	-0.21	6725	-7.2
1	F069	A	-0.819	0.035	0.85	0.50	0.002	0.85	0.06	0.05	0.04	0.50	-0.32	-0.26	-0.22	7392	-7.5
2	F069	D	0.343	0.030	0.71	0.56	0.003	0.11	0.09	0.09	0.71	-0.43	-0.22	-0.18	0.56	6809	-8.8
3	F069	D	-0.128	0.031	0.77	0.40	0.003	0.12	0.04	0.07	0.77	-0.24	-0.13	-0.24	0.40	6819	-0.6
4	F069	C	1.002	0.027	0.58	0.50	0.002	0.13	0.05	0.58	0.25	-0.11	-0.13	0.50	-0.40	6794	-4.5
5	F069	C	0.601	0.028	0.65	0.43	0.001	0.04	0.07	0.65	0.25	-0.16	-0.08	0.43	-0.35	6775	1.3
6	F069	D	0.612	0.028	0.65	0.54	0.003	0.09	0.11	0.16	0.65	-0.27	-0.32	-0.22	0.54	6795	-9.9
7	F069	D	0.160	0.030	0.73	0.46	0.003	0.05	0.10	0.12	0.73	-0.31	-0.19	-0.24	0.46	6791	-3.5
8	F069	B	-1.000	0.040	0.89	0.41	0.002	0.05	0.89	0.03	0.03	-0.23	0.41	-0.20	-0.23	6820	-3.2
9	F069	B	0.545	0.028	0.66	0.44	0.002	0.09	0.66	0.20	0.05	-0.25	0.44	-0.23	-0.19	6803	-0.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
10	F069	A	0.799	0.027	0.63	0.35	0.003	0.63	0.16	0.11	0.10	0.35	-0.11	-0.23	-0.17	6802	3.8
11	F069	B	0.494	0.029	0.69	0.34	0.002	0.13	0.69	0.09	0.10	-0.18	0.34	-0.17	-0.15	6795	6.4
12	F069	C	0.637	0.028	0.66	0.44	0.002	0.14	0.08	0.66	0.11	-0.20	-0.28	0.44	-0.19	6792	-2.6
13	F069	B	0.568	0.028	0.66	0.51	0.002	0.08	0.66	0.15	0.11	-0.25	0.51	-0.32	-0.17	6782	-7.9
14	F069	B	1.396	0.026	0.49	0.39	0.004	0.19	0.49	0.08	0.25	-0.31	0.39	-0.19	-0.04	6784	3.0
15	F069	B	-0.251	0.033	0.80	0.48	0.002	0.11	0.80	0.04	0.06	-0.24	0.48	-0.23	-0.30	6754	-3.4
16	F069	B	1.738	0.027	0.45	0.43	0.002	0.07	0.45	0.25	0.24	-0.18	0.43	-0.24	-0.14	6779	4.9
17	F069	C	0.370	0.029	0.71	0.53	0.003	0.09	0.16	0.71	0.03	-0.36	-0.29	0.53	-0.12	6779	-7.25 -
18	F069	C	1.049	0.027	0.58	0.52	0.001	0.07	0.10	0.58	0.24	-0.23	-0.28	0.52	-0.26	6753	-7.5
19	F069	D	1.427	0.027	0.51	0.41	0.002	0.12	0.12	0.25	0.51	-0.17	-0.16	-0.22	0.41	6734	2.9
20	F069	B	0.511	0.029	0.68	0.50	0.002	0.12	0.68	0.11	0.09	-0.29	0.50	-0.11	-0.36	6725	-2.6
1	F070	B	0.946	0.026	0.57	0.48	0.002	0.09	0.57	0.27	0.06	-0.31	0.48	-0.27	-0.11	7392	-2.8
2	F070	B	-1.448	0.046	0.91	0.38	0.004	0.03	0.91	0.03	0.02	-0.20	0.38	-0.20	-0.21	6809	-2.3
3	F070	A	-1.224	0.042	0.90	0.38	0.001	0.90	0.07	0.02	0.01	0.38	-0.26	-0.21	-0.16	6819	-2.6
4	F070	D	1.626	0.027	0.46	0.48	0.002	0.43	0.08	0.03	0.46	-0.23	-0.31	-0.22	0.48	6794	-3.7
5	F070	B	1.407	0.027	0.48	0.37	0.002	0.17	0.48	0.13	0.21	-0.34	0.37	-0.08	-0.06	6775	8.0
6	F070	D	1.600	0.027	0.45	0.37	0.001	0.05	0.08	0.42	0.45	-0.23	-0.11	-0.21	0.37	6795	7.0
7	F070	C	0.750	0.028	0.62	0.41	0.002	0.17	0.18	0.62	0.03	-0.34	-0.10	0.41	-0.18	6791	2.1
8	F070	D	0.213	0.030	0.73	0.39	0.002	0.16	0.02	0.08	0.73	-0.24	-0.15	-0.22	0.39	6820	0.3
9	F070	B	2.345	0.028	0.31	0.06	0.001	0.15	0.31	0.14	0.40	-0.10	0.06	-0.10	0.10	6803	9.9
10	F070	A	-0.860	0.039	0.87	0.51	0.002	0.87	0.03	0.03	0.06	0.51	-0.23	-0.26	-0.33	6802	-9.6
11	F070	C	1.242	0.027	0.54	0.42	0.002	0.09	0.22	0.54	0.15	-0.33	-0.11	0.42	-0.17	6795	1.7
12	F070	A	-0.866	0.039	0.88	0.35	0.002	0.88	0.05	0.04	0.04	0.35	-0.24	-0.13	-0.19	6792	0.8
13	F070	C	0.085	0.030	0.74	0.37	0.003	0.08	0.05	0.74	0.13	-0.26	-0.23	0.37	-0.11	6782	1.6
14	F070	C	0.110	0.030	0.74	0.41	0.003	0.09	0.10	0.74	0.07	-0.25	-0.20	0.41	-0.17	6784	-0.8
15	F070	B	1.173	0.027	0.55	0.45	0.002	0.03	0.55	0.25	0.17	-0.06	0.45	-0.11	-0.42	6754	2.4
16	F070	D	-0.715	0.037	0.86	0.43	0.002	0.07	0.02	0.04	0.86	-0.25	-0.24	-0.22	0.43	6779	-3.2
17	F070	D	0.769	0.028	0.63	0.37	0.002	0.17	0.11	0.09	0.63	-0.16	-0.18	-0.19	0.37	6779	-4.4
18	F070	D	-0.908	0.039	0.86	0.50	0.001	0.06	0.05	0.04	0.86	-0.35	-0.24	-0.23	0.50	6753	-5.5
19	F070	A	0.924	0.028	0.60	0.48	0.001	0.60	0.31	0.05	0.03	0.48	-0.31	-0.20	-0.23	6734	-2.4
20	F070	C	0.761	0.028	0.64	0.55	0.002	0.24	0.08	0.64	0.05	-0.40	-0.26	0.55	-0.09	6725	-7.6
1	F071	D	0.327	0.028	0.69	0.48	0.001	0.14	0.05	0.12	0.69	-0.30	-0.17	-0.25	0.48	7392	-3.1
2	F071	D	-1.002	0.040	0.88	0.51	0.003	0.05	0.04	0.03	0.88	-0.40	-0.23	-0.17	0.51	6809	-6.5
3	F071	D	0.137	0.030	0.73	0.40	0.002	0.16	0.03	0.08	0.73	-0.26	-0.18	-0.18	0.40	6819	0.2
4	F071	D	-0.557	0.035	0.83	0.51	0.002	0.07	0.06	0.04	0.83	-0.39	-0.24	-0.16	0.51	6794	-6.9
5	F071	C	0.369	0.029	0.69	0.39	0.003	0.02	0.26	0.69	0.03	-0.18	-0.27	0.39	-0.19	6775	0.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	F071	B	-0.242	0.032	0.79	0.32	0.001	0.01	0.79	0.18	0.02	-0.18	0.32	-0.21	-0.18	6795	4.4
7	F071	C	1.823	0.027	0.41	0.39	0.003	0.10	0.20	0.41	0.29	-0.25	-0.26	0.39	-0.02	6791	5.1
8	F071	A	1.218	0.027	0.55	0.33	0.002	0.55	0.17	0.17	0.11	0.33	-0.16	-0.22	-0.05	6820	9.4
9	F071	C	1.373	0.026	0.50	0.46	0.001	0.25	0.12	0.50	0.13	-0.23	-0.20	0.46	-0.18	6803	-2.2
10	F071	B	2.351	0.028	0.31	0.00	0.002	0.13	0.31	0.23	0.33	-0.08	0.00	-0.03	0.08	6802	9.9
11	F071	A	1.654	0.027	0.46	0.29	0.002	0.46	0.08	0.44	0.02	0.29	-0.24	-0.10	-0.17	6795	9.9
12	F071	D	-0.147	0.032	0.79	0.39	0.002	0.06	0.09	0.06	0.79	-0.20	-0.21	-0.20	0.39	6792	-1.2
13	F071	D	0.003	0.031	0.75	0.53	0.003	0.07	0.07	0.10	0.75	-0.32	-0.32	-0.20	0.53	6782	-7.9
14	F071	B	1.435	0.026	0.48	0.36	0.003	0.17	0.48	0.29	0.07	-0.13	0.36	-0.20	-0.15	6784	5.9
15	F071	A	-1.329	0.044	0.91	0.34	0.001	0.91	0.05	0.03	0.01	0.34	-0.18	-0.23	-0.17	6754	-0.7
16	F071	B	0.407	0.029	0.71	0.41	0.001	0.18	0.71	0.07	0.04	-0.24	0.41	-0.22	-0.16	6779	0.1
17	F071	C	0.517	0.028	0.68	0.49	0.003	0.11	0.13	0.68	0.07	-0.29	-0.24	0.49	-0.19	6779	-3.7
18	F071	B	0.272	0.030	0.73	0.49	0.001	0.19	0.73	0.04	0.04	-0.42	0.49	-0.14	-0.11	6753	-5.4
19	F071	D	0.138	0.031	0.75	0.52	0.002	0.10	0.09	0.06	0.75	-0.29	-0.27	-0.25	0.52	6734	-7.6
20	F071	A	0.761	0.028	0.64	0.53	0.001	0.64	0.27	0.06	0.03	0.53	-0.44	-0.12	-0.18	6725	-5.6
1	F072	D	1.245	0.026	0.52	0.33	0.003	0.08	0.06	0.34	0.52	-0.19	-0.18	-0.14	0.33	7392	9.9
2	F072	C	-0.986	0.040	0.88	0.45	0.004	0.02	0.05	0.88	0.05	-0.24	-0.25	0.45	-0.25	6809	-2.5
3	F072	B	0.942	0.027	0.59	0.50	0.003	0.26	0.59	0.07	0.09	-0.30	0.50	-0.27	-0.14	6819	-5.2
4	F072	C	1.162	0.027	0.55	0.40	0.003	0.18	0.11	0.55	0.16	-0.21	-0.03	0.40	-0.28	6794	4.0
5	F072	C	-1.862	0.052	0.94	0.32	0.003	0.01	0.03	0.94	0.02	-0.17	-0.18	0.32	-0.20	6775	-1.5
6	F072	D	-1.720	0.050	0.93	0.33	0.002	0.02	0.02	0.02	0.93	-0.19	-0.19	-0.17	0.33	6795	-2.8
7	F072	B	0.843	0.027	0.60	0.50	0.003	0.07	0.60	0.10	0.23	-0.19	0.50	-0.28	-0.26	6791	-6.2
8	F072	B	-0.366	0.034	0.82	0.33	0.002	0.01	0.82	0.15	0.02	-0.17	0.33	-0.22	-0.18	6820	3.0
9	F072	D	-0.995	0.039	0.88	0.41	0.001	0.03	0.04	0.05	0.88	-0.26	-0.24	-0.19	0.41	6803	-4.0
10	F072	D	-0.127	0.032	0.78	0.55	0.003	0.05	0.04	0.12	0.78	-0.31	-0.25	-0.32	0.55	6802	-9.9
11	F072	A	-1.171	0.043	0.90	0.38	0.003	0.90	0.06	0.02	0.01	0.38	-0.26	-0.19	-0.16	6795	-2.9
12	F072	B	0.109	0.031	0.75	0.49	0.002	0.19	0.75	0.03	0.02	-0.41	0.49	-0.15	-0.14	6792	-5.7
13	F072	C	0.828	0.027	0.61	0.36	0.003	0.17	0.13	0.61	0.09	-0.19	-0.10	0.36	-0.22	6782	4.8
14	F072	D	0.981	0.027	0.57	0.23	0.003	0.28	0.07	0.07	0.57	-0.03	-0.22	-0.15	0.23	6784	9.9
15	F072	D	-0.810	0.038	0.86	0.48	0.003	0.02	0.03	0.09	0.86	-0.21	-0.23	-0.32	0.48	6754	-5.1
16	F072	D	1.004	0.027	0.60	0.45	0.002	0.11	0.05	0.25	0.60	-0.12	-0.14	-0.35	0.45	6779	0.1
17	F072	D	0.801	0.028	0.64	0.53	0.003	0.03	0.09	0.24	0.64	-0.22	-0.23	-0.34	0.53	6779	-9.6
18	F072	B	-1.011	0.041	0.88	0.46	0.001	0.02	0.88	0.06	0.04	-0.17	0.46	-0.40	-0.14	6753	-1.5
19	F072	B	1.815	0.027	0.46	0.32	0.002	0.26	0.46	0.17	0.11	-0.12	0.32	-0.10	-0.21	6734	-9.9
20	F072	D	-0.141	0.033	0.79	0.36	0.002	0.16	0.03	0.02	0.79	-0.21	-0.21	-0.21	0.36	6725	3.5
1	F073	B	0.670	0.027	0.63	0.44	0.004	0.21	0.63	0.06	0.10	-0.27	0.44	-0.20	-0.16	7392	1.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
2	F073	D	0.715	0.028	0.64	0.50	0.006	0.10	0.06	0.19	0.64	-0.26	-0.10	-0.33	0.50	6809	-2.0
3	F073	D	0.265	0.029	0.71	0.45	0.004	0.06	0.06	0.17	0.71	-0.22	-0.27	-0.23	0.45	6819	-1.6
4	F073	A	-0.003	0.031	0.76	0.54	0.007	0.76	0.05	0.07	0.11	0.54	-0.24	-0.34	-0.27	6794	-8.2
5	F073	D	-0.056	0.031	0.76	0.37	0.005	0.10	0.07	0.07	0.76	-0.29	-0.12	-0.15	0.37	6775	1.5
6	F073	D	-0.037	0.031	0.76	0.40	0.005	0.12	0.04	0.08	0.76	-0.21	-0.15	-0.26	0.40	6795	0.4
7	F073	D	1.205	0.027	0.53	0.41	0.005	0.15	0.14	0.18	0.53	-0.24	-0.13	-0.18	0.41	6791	3.6
8	F073	C	-0.684	0.037	0.85	0.46	0.003	0.06	0.04	0.85	0.05	-0.27	-0.23	0.46	-0.25	6820	-5.0
9	F073	C	0.956	0.027	0.58	0.49	0.004	0.26	0.11	0.58	0.05	-0.33	-0.11	0.49	-0.29	6803	-6.3
10	F073	A	0.606	0.028	0.66	0.45	0.005	0.66	0.18	0.07	0.08	0.45	-0.17	-0.31	-0.23	6802	-2.3
11	F073	D	1.758	0.027	0.43	0.30	0.005	0.17	0.05	0.34	0.43	-0.18	-0.19	-0.08	0.30	6795	9.9
12	F073	D	-1.108	0.042	0.90	0.45	0.004	0.01	0.07	0.02	0.90	-0.16	-0.35	-0.21	0.45	6792	-6.3
13	F073	D	-1.844	0.053	0.94	0.33	0.008	0.01	0.03	0.02	0.94	-0.18	-0.17	-0.20	0.33	6782	-1.9
14	F073	B	-1.971	0.055	0.95	0.31	0.005	0.01	0.95	0.02	0.01	-0.15	0.31	-0.17	-0.21	6784	-1.2
15	F073	C	2.058	0.028	0.37	0.34	0.004	0.07	0.16	0.37	0.40	-0.21	-0.18	0.34	-0.08	6754	9.9
16	F073	A	1.239	0.027	0.55	0.37	0.004	0.55	0.18	0.11	0.16	0.37	-0.17	-0.22	-0.12	6779	8.2
17	F073	A	0.584	0.028	0.65	0.48	0.004	0.65	0.22	0.07	0.06	0.48	-0.24	-0.23	-0.26	6779	-4.4
18	F073	C	0.149	0.031	0.73	0.44	0.003	0.08	0.09	0.73	0.10	-0.28	-0.24	0.44	-0.17	6753	0.6
19	F073	D	0.968	0.028	0.60	0.48	0.005	0.06	0.26	0.07	0.60	-0.22	-0.26	-0.23	0.48	6734	-3.7
20	F073	A	0.776	0.028	0.63	0.54	0.003	0.63	0.23	0.05	0.09	0.54	-0.43	-0.19	-0.13	6725	-6.5

Appendix K:

**2005 Field Test Grade 8 Multiple Choice Statistics for
Mathematics**

2005 Field Test Grade 8 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F005	B	-0.868	0.030	0.79	0.43	0.003	0.07	0.79	0.05	0.09	-0.18	0.43	-0.23	-0.26	7953	-5.0
2	F005	D	-0.551	0.030	0.77	0.49	0.002	0.02	0.16	0.05	0.77	-0.23	-0.37	-0.14	0.49	7395	-4.6
3	F005	B	-1.113	0.035	0.85	0.44	0.002	0.02	0.85	0.06	0.06	-0.16	0.44	-0.26	-0.27	7392	-3.0
4	F005	D	-1.120	0.034	0.84	0.48	0.001	0.07	0.05	0.04	0.84	-0.29	-0.24	-0.24	0.48	7394	-7.0
5	F005	A	-0.745	0.031	0.79	0.43	0.002	0.79	0.14	0.04	0.02	0.43	-0.29	-0.22	-0.14	7387	-4.1
6	F005	B	-0.363	0.029	0.74	0.48	0.002	0.07	0.74	0.14	0.04	-0.27	0.48	-0.31	-0.15	7388	-6.7
7	F005	B	-0.187	0.028	0.72	0.42	0.002	0.10	0.72	0.14	0.05	-0.09	0.42	-0.30	-0.25	7391	2.7
8	F005	C	0.622	0.026	0.56	0.42	0.001	0.08	0.15	0.56	0.20	-0.11	-0.20	0.42	-0.25	7394	0.8
9	F005	D	-0.063	0.028	0.70	0.54	0.001	0.08	0.06	0.16	0.70	-0.20	-0.23	-0.37	0.54	7395	-7.0
10	F005	D	-0.936	0.033	0.82	0.41	0.002	0.04	0.09	0.05	0.82	-0.24	-0.25	-0.16	0.41	7377	-0.9
11	F005	B	0.023	0.027	0.66	0.53	0.001	0.05	0.66	0.12	0.16	-0.26	0.53	-0.38	-0.17	7377	-8.8
12	F005	C	1.773	0.028	0.35	0.37	0.002	0.46	0.14	0.35	0.05	-0.28	-0.04	0.37	-0.07	7357	9.9
13	F005	B	-0.671	0.032	0.80	0.41	0.002	0.07	0.80	0.04	0.09	-0.17	0.41	-0.23	-0.25	7335	-3.1
14	F005	D	-0.571	0.030	0.77	0.50	0.002	0.03	0.16	0.05	0.77	-0.25	-0.37	-0.13	0.50	7320	-4.5
15	F005	B	-1.228	0.035	0.85	0.42	0.002	0.02	0.85	0.06	0.06	-0.15	0.42	-0.26	-0.24	7307	-2.2
16	F005	D	-1.049	0.034	0.84	0.49	0.002	0.07	0.06	0.04	0.84	-0.29	-0.26	-0.24	0.49	7316	-7.1
17	F005	C	0.533	0.026	0.57	0.41	0.003	0.08	0.15	0.57	0.20	-0.10	-0.20	0.41	-0.25	7330	2.2
18	F005	D	-0.922	0.033	0.82	0.41	0.002	0.04	0.09	0.05	0.82	-0.22	-0.22	-0.22	0.41	7306	0.4
19	F005	B	0.144	0.027	0.66	0.55	0.003	0.05	0.66	0.12	0.17	-0.26	0.55	-0.38	-0.19	7337	-7.6
20	F005	C	1.784	0.028	0.35	0.37	0.003	0.46	0.14	0.35	0.05	-0.31	-0.03	0.37	-0.04	7354	9.9
1	F066	B	0.219	0.025	0.60	0.53	0.004	0.11	0.60	0.16	0.12	-0.27	0.53	-0.19	-0.30	7953	-7.5
2	F066	C	-1.754	0.041	0.90	0.40	0.003	0.02	0.03	0.90	0.04	-0.18	-0.17	0.40	-0.28	7395	-4.3
3	F066	B	-1.836	0.044	0.91	0.45	0.002	0.02	0.91	0.04	0.02	-0.16	0.45	-0.31	-0.25	7392	-6.6
4	F066	C	-0.287	0.028	0.72	0.41	0.004	0.10	0.09	0.72	0.08	-0.19	-0.21	0.41	-0.21	7394	1.0
5	F066	A	-2.041	0.046	0.92	0.36	0.002	0.92	0.03	0.02	0.03	0.36	-0.20	-0.17	-0.20	7387	-5.0
6	F066	A	1.256	0.026	0.44	0.28	0.003	0.44	0.24	0.20	0.12	0.28	-0.02	-0.24	-0.10	7388	9.9
7	F066	D	-0.526	0.030	0.77	0.55	0.003	0.06	0.04	0.13	0.77	-0.21	-0.23	-0.39	0.55	7391	-8.7
8	F066	D	1.057	0.026	0.48	0.41	0.001	0.25	0.19	0.08	0.48	-0.35	-0.04	-0.13	0.41	7394	3.9
9	F066	D	1.371	0.026	0.43	0.43	0.003	0.17	0.20	0.21	0.43	-0.25	-0.12	-0.17	0.43	7395	3.4
10	F066	A	0.778	0.026	0.54	0.36	0.003	0.54	0.29	0.11	0.06	0.36	-0.16	-0.18	-0.18	7377	9.9
11	F066	D	2.161	0.029	0.25	0.07	0.004	0.22	0.25	0.28	0.25	0.01	0.02	-0.08	0.07	7377	9.9
12	F066	D	-0.607	0.031	0.78	0.58	0.003	0.13	0.04	0.05	0.78	-0.44	-0.21	-0.21	0.58	7357	-9.9
13	F066	B	0.275	0.027	0.65	0.45	0.003	0.17	0.65	0.09	0.09	-0.37	0.45	-0.11	-0.15	7335	2.0
14	F066	D	0.165	0.027	0.64	0.57	0.003	0.06	0.19	0.10	0.64	-0.23	-0.32	-0.28	0.57	7320	-9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	F066	C	-0.409	0.030	0.75	0.53	0.003	0.10	0.13	0.75	0.03	-0.24	-0.37	0.53	-0.18	7307	-5.0
16	F066	B	0.616	0.026	0.56	0.49	0.004	0.11	0.56	0.21	0.12	-0.19	0.49	-0.23	-0.26	7316	-5.1
17	F066	A	0.214	0.027	0.66	0.42	0.005	0.66	0.08	0.16	0.09	0.42	-0.23	-0.21	-0.17	7330	-1.5
18	F066	D	0.503	0.027	0.61	0.54	0.002	0.09	0.23	0.07	0.61	-0.30	-0.35	-0.11	0.54	7306	-7.3
19	F066	D	0.132	0.028	0.66	0.62	0.004	0.14	0.11	0.09	0.66	-0.40	-0.31	-0.18	0.62	7337	-9.9
20	F066	C	0.149	0.027	0.66	0.53	0.002	0.02	0.28	0.66	0.03	-0.21	-0.38	0.53	-0.23	7354	-5.9
1	F067	C	0.219	0.025	0.55	0.32	0.004	0.21	0.05	0.55	0.20	-0.19	-0.19	0.32	-0.09	7953	9.9
2	F067	A	-1.754	0.028	0.32	0.20	0.004	0.32	0.12	0.25	0.32	0.20	-0.12	-0.17	0.05	7395	9.9
3	F067	A	-1.836	0.027	0.59	0.24	0.002	0.59	0.29	0.06	0.06	0.24	-0.01	-0.24	-0.23	7392	9.9
4	F067	C	-0.287	0.029	0.27	0.24	0.005	0.30	0.32	0.27	0.11	-0.12	-0.10	0.24	-0.01	7394	9.9
5	F067	B	-2.041	0.026	0.51	0.46	0.005	0.18	0.51	0.25	0.06	-0.25	0.46	-0.20	-0.16	7387	0.8
6	F067	D	1.256	0.026	0.56	0.36	0.003	0.06	0.19	0.20	0.56	-0.21	-0.14	-0.18	0.36	7388	6.7
7	F067	D	-0.526	0.026	0.44	0.37	0.003	0.35	0.13	0.07	0.44	-0.06	-0.24	-0.26	0.37	7391	8.7
8	F067	C	1.057	0.027	0.33	0.27	0.005	0.26	0.25	0.33	0.16	-0.34	0.03	0.27	0.04	7394	9.9
9	F067	B	1.371	0.029	0.74	0.58	0.003	0.12	0.74	0.05	0.09	-0.32	0.58	-0.21	-0.35	7395	-9.9
10	F067	A	0.778	0.028	0.67	0.44	0.002	0.67	0.15	0.11	0.07	0.44	-0.22	-0.13	-0.31	7377	-0.9
11	F067	B	2.161	0.027	0.66	0.55	0.003	0.18	0.66	0.10	0.06	-0.30	0.55	-0.26	-0.25	7377	-9.9
12	F067	B	-0.607	0.029	0.73	0.54	0.004	0.04	0.73	0.13	0.10	-0.19	0.54	-0.33	-0.30	7357	-5.8
13	F067	C	0.275	0.028	0.70	0.38	0.003	0.02	0.20	0.70	0.08	-0.18	-0.22	0.38	-0.22	7335	3.8
14	F067	C	0.165	0.026	0.51	0.56	0.003	0.05	0.06	0.51	0.38	-0.10	-0.07	0.56	-0.48	7320	-9.8
15	F067	D	-0.409	0.030	0.75	0.49	0.004	0.05	0.06	0.13	0.75	-0.14	-0.28	-0.32	0.49	7307	-5.5
16	F067	C	0.616	0.029	0.73	0.45	0.003	0.05	0.07	0.73	0.15	-0.29	-0.19	0.45	-0.23	7316	-2.7
17	F067	B	0.214	0.028	0.73	0.53	0.002	0.12	0.73	0.04	0.12	-0.21	0.53	-0.20	-0.40	7330	-8.6
18	F067	B	0.503	0.027	0.41	0.42	0.003	0.36	0.41	0.11	0.12	-0.20	0.42	-0.02	-0.30	7306	8.0
19	F067	C	0.132	0.028	0.71	0.55	0.004	0.06	0.11	0.71	0.13	-0.26	-0.29	0.55	-0.28	7337	-9.9
20	F067	C	0.149	0.027	0.66	0.50	0.003	0.10	0.14	0.66	0.10	-0.19	-0.32	0.50	-0.22	7354	-4.6
1	F068	A	0.509	0.027	0.72	0.37	0.004	0.72	0.18	0.06	0.04	0.37	-0.24	-0.19	-0.11	7953	1.4
2	F068	C	1.895	0.029	0.75	0.48	0.003	0.20	0.02	0.75	0.03	-0.36	-0.17	0.48	-0.18	7395	-5.8
3	F068	C	0.570	0.028	0.32	0.31	0.003	0.23	0.34	0.32	0.11	-0.09	-0.18	0.31	-0.05	7392	9.9
4	F068	D	2.157	0.026	0.50	0.41	0.002	0.04	0.14	0.32	0.50	-0.16	-0.17	-0.23	0.41	7394	5.8
5	F068	A	0.908	0.035	0.86	0.51	0.002	0.86	0.06	0.04	0.04	0.51	-0.28	-0.29	-0.26	7387	-8.8
6	F068	A	0.664	0.027	0.62	0.53	0.003	0.62	0.08	0.23	0.07	0.53	-0.27	-0.33	-0.16	7388	-6.7
7	F068	C	1.264	0.026	0.51	0.49	0.004	0.08	0.31	0.51	0.09	-0.22	-0.39	0.49	-0.00	7391	-3.8
8	F068	A	1.816	0.026	0.53	0.37	0.002	0.53	0.16	0.08	0.23	0.37	-0.25	-0.23	-0.06	7394	7.9
9	F068	B	-0.314	0.027	0.65	0.52	0.002	0.29	0.65	0.04	0.02	-0.41	0.52	-0.18	-0.16	7395	-6.5
10	F068	B	0.050	0.026	0.59	0.41	0.003	0.10	0.59	0.25	0.06	-0.07	0.41	-0.30	-0.19	7377	5.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	F068	D	0.039	0.028	0.27	0.38	0.003	0.50	0.11	0.11	0.27	-0.18	-0.18	-0.06	0.38	7377	5.0
12	F068	C	-0.310	0.031	0.78	0.45	0.003	0.05	0.12	0.78	0.04	-0.22	-0.29	0.45	-0.15	7357	-0.5
13	F068	D	-0.030	0.027	0.35	0.40	0.002	0.06	0.10	0.49	0.35	-0.18	-0.24	-0.14	0.40	7335	7.3
14	F068	B	0.833	0.035	0.85	0.35	0.003	0.07	0.85	0.05	0.03	-0.19	0.35	-0.19	-0.18	7320	3.4
15	F068	D	-0.454	0.029	0.71	0.50	0.002	0.16	0.08	0.05	0.71	-0.22	-0.29	-0.28	0.50	7307	-3.8
16	F068	D	-0.306	0.033	0.83	0.43	0.002	0.04	0.04	0.09	0.83	-0.22	-0.23	-0.23	0.43	7316	-2.9
17	F068	B	-0.241	0.026	0.65	0.34	0.003	0.04	0.65	0.24	0.07	-0.10	0.34	-0.24	-0.14	7330	5.2
18	F068	A	1.592	0.027	0.60	0.57	0.002	0.60	0.13	0.19	0.07	0.57	-0.24	-0.31	-0.28	7306	-9.9
19	F068	C	-0.072	0.029	0.72	0.58	0.004	0.08	0.09	0.72	0.11	-0.26	-0.29	0.58	-0.32	7337	-9.1
20	F068	D	0.265	0.027	0.65	0.53	0.005	0.08	0.08	0.18	0.65	-0.22	-0.28	-0.28	0.53	7354	-7.8
1	F069	C	-0.423	0.026	0.64	0.41	0.004	0.11	0.03	0.64	0.22	-0.11	-0.19	0.41	-0.30	7953	3.2
2	F069	B	-0.416	0.026	0.48	0.48	0.004	0.25	0.48	0.12	0.15	-0.22	0.48	-0.21	-0.19	7395	-2.0
3	F069	D	1.973	0.026	0.51	0.44	0.005	0.16	0.11	0.22	0.51	-0.16	-0.19	-0.24	0.44	7392	1.8
4	F069	D	0.912	0.027	0.63	0.33	0.004	0.12	0.18	0.06	0.63	-0.19	-0.13	-0.17	0.33	7394	9.9
5	F069	B	-1.261	0.029	0.72	0.58	0.003	0.05	0.72	0.12	0.11	-0.21	0.58	-0.30	-0.35	7387	-9.9
6	F069	A	0.332	0.031	0.78	0.45	0.002	0.78	0.09	0.03	0.10	0.45	-0.26	-0.19	-0.25	7388	-4.3
7	F069	A	0.912	0.033	0.18	0.13	0.004	0.18	0.38	0.26	0.19	0.13	0.03	-0.03	-0.12	7391	9.9
8	F069	A	0.777	0.029	0.75	0.52	0.001	0.75	0.08	0.04	0.13	0.52	-0.32	-0.28	-0.24	7394	-8.1
9	F069	C	0.233	0.027	0.67	0.53	0.003	0.07	0.12	0.67	0.14	-0.30	-0.26	0.53	-0.24	7395	-8.5
10	F069	A	0.499	0.035	0.85	0.45	0.003	0.85	0.09	0.03	0.03	0.45	-0.30	-0.22	-0.21	7377	-5.6
11	F069	C	2.025	0.026	0.60	0.48	0.002	0.06	0.25	0.60	0.09	-0.25	-0.23	0.48	-0.25	7377	-4.8
12	F069	A	-0.646	0.030	0.27	0.28	0.003	0.27	0.04	0.62	0.08	0.28	-0.13	-0.11	-0.15	7357	9.9
13	F069	C	1.863	0.028	0.33	0.34	0.004	0.20	0.14	0.33	0.33	-0.23	-0.12	0.34	-0.04	7335	9.9
14	F069	C	-1.176	0.026	0.60	0.44	0.003	0.08	0.18	0.60	0.15	-0.24	-0.31	0.44	-0.08	7320	0.4
15	F069	B	-0.201	0.027	0.63	0.24	0.003	0.03	0.63	0.08	0.26	-0.14	0.24	-0.14	-0.12	7307	9.9
16	F069	C	-0.979	0.030	0.77	0.51	0.003	0.12	0.07	0.77	0.04	-0.40	-0.24	0.51	-0.08	7316	-7.5
17	F069	D	0.354	0.028	0.38	0.49	0.004	0.34	0.12	0.16	0.38	-0.28	-0.14	-0.15	0.49	7330	0.7
18	F069	D	0.559	0.027	0.42	0.37	0.004	0.21	0.26	0.11	0.42	-0.08	-0.16	-0.23	0.37	7306	9.9
19	F069	C	-0.214	0.027	0.63	0.32	0.005	0.11	0.13	0.63	0.13	-0.12	-0.19	0.32	-0.14	7337	9.6
20	F069	B	0.284	0.027	0.65	0.54	0.003	0.12	0.65	0.14	0.09	-0.23	0.54	-0.29	-0.25	7354	-6.8
1	F070	C	0.050	0.039	0.90	0.42	0.003	0.03	0.05	0.90	0.03	-0.21	-0.26	0.42	-0.20	7953	-7.1
2	F070	B	1.036	0.035	0.15	-0.06	0.004	0.40	0.15	0.36	0.09	0.11	-0.06	0.07	-0.21	7395	9.9
3	F070	C	0.972	0.030	0.76	0.51	0.003	0.14	0.06	0.76	0.04	-0.32	-0.25	0.51	-0.21	7392	-4.0
4	F070	B	0.204	0.028	0.70	0.54	0.003	0.11	0.70	0.11	0.07	-0.28	0.54	-0.33	-0.19	7394	-9.9
5	F070	B	-0.277	0.027	0.64	0.41	0.004	0.10	0.64	0.17	0.08	-0.21	0.41	-0.21	-0.17	7387	1.4
6	F070	B	-0.626	0.026	0.51	0.45	0.002	0.19	0.51	0.19	0.11	-0.22	0.45	-0.22	-0.15	7388	0.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	F070	B	2.854	0.027	0.62	0.43	0.004	0.17	0.62	0.13	0.08	-0.13	0.43	-0.29	-0.20	7391	2.5
8	F070	C	-0.398	0.029	0.75	0.38	0.002	0.04	0.14	0.75	0.06	-0.21	-0.29	0.38	-0.07	7394	0.7
9	F070	B	0.123	0.027	0.63	0.37	0.003	0.07	0.63	0.22	0.09	-0.18	0.37	-0.18	-0.20	7395	7.4
10	F070	D	-1.152	0.027	0.61	0.62	0.002	0.08	0.15	0.16	0.61	-0.26	-0.35	-0.28	0.62	7377	-9.9
11	F070	C	0.320	0.027	0.67	0.44	0.003	0.08	0.14	0.67	0.10	-0.20	-0.23	0.44	-0.23	7377	-1.1
12	F070	C	2.253	0.048	0.93	0.24	0.002	0.01	0.03	0.93	0.03	-0.16	-0.12	0.24	-0.10	7357	5.8
13	F070	C	1.953	0.029	0.28	0.27	0.002	0.17	0.28	0.28	0.26	-0.04	-0.18	0.27	-0.04	7335	9.9
14	F070	A	0.398	0.035	0.16	0.15	0.003	0.16	0.17	0.40	0.27	0.15	0.00	0.11	-0.23	7320	9.9
15	F070	A	0.280	0.027	0.58	0.52	0.003	0.58	0.14	0.19	0.09	0.52	-0.28	-0.21	-0.25	7307	-4.2
16	F070	A	-0.577	0.027	0.64	0.28	0.003	0.64	0.28	0.06	0.03	0.28	-0.14	-0.17	-0.16	7316	9.9
17	F070	B	1.696	0.030	0.30	0.32	0.003	0.15	0.30	0.32	0.23	-0.18	0.32	-0.26	0.10	7330	9.9
18	F070	B	1.616	0.026	0.54	0.43	0.003	0.21	0.54	0.13	0.12	-0.04	0.43	-0.34	-0.23	7306	5.6
19	F070	C	0.378	0.034	0.85	0.48	0.004	0.04	0.07	0.85	0.04	-0.23	-0.31	0.48	-0.20	7337	-7.7
20	F070	D	0.247	0.028	0.71	0.53	0.004	0.06	0.07	0.15	0.71	-0.29	-0.28	-0.25	0.53	7354	-5.6
1	F071	D	-1.834	0.025	0.59	0.48	0.004	0.07	0.12	0.22	0.59	-0.24	-0.28	-0.18	0.48	7953	-2.7
2	F071	A	3.103	0.026	0.54	0.46	0.004	0.54	0.15	0.13	0.18	0.46	-0.22	-0.25	-0.15	7395	0.4
3	F071	C	-0.425	0.027	0.60	0.50	0.004	0.12	0.19	0.60	0.09	-0.21	-0.22	0.50	-0.29	7392	-4.4
4	F071	C	-0.188	0.026	0.53	0.54	0.004	0.06	0.09	0.53	0.33	-0.16	-0.20	0.54	-0.36	7394	-8.0
5	F071	A	0.198	0.026	0.51	0.35	0.002	0.51	0.22	0.13	0.15	0.35	-0.22	-0.09	-0.15	7387	9.9
6	F071	B	0.910	0.033	0.17	-0.10	0.002	0.37	0.17	0.10	0.37	0.18	-0.10	-0.20	0.03	7388	9.9
7	F071	B	0.355	0.027	0.35	0.27	0.004	0.17	0.35	0.21	0.27	-0.18	0.27	-0.23	0.10	7391	9.9
8	F071	B	-0.439	0.026	0.50	0.12	0.002	0.10	0.50	0.07	0.33	-0.16	0.12	-0.17	0.08	7394	9.9
9	F071	D	0.332	0.026	0.51	0.51	0.004	0.08	0.18	0.22	0.51	-0.20	-0.31	-0.17	0.51	7395	-5.0
10	F071	B	0.430	0.027	0.61	0.44	0.003	0.24	0.61	0.09	0.05	-0.21	0.44	-0.23	-0.24	7377	0.8
11	F071	B	-0.059	0.029	0.74	0.54	0.002	0.09	0.74	0.07	0.09	-0.27	0.54	-0.30	-0.26	7377	-9.9
12	F071	C	-2.201	0.033	0.83	0.54	0.003	0.06	0.06	0.83	0.05	-0.27	-0.30	0.54	-0.28	7357	-8.5
13	F071	D	2.217	0.037	0.87	0.44	0.002	0.02	0.05	0.06	0.87	-0.21	-0.30	-0.21	0.44	7335	-3.4
14	F071	B	3.003	0.026	0.48	0.34	0.003	0.17	0.48	0.15	0.19	-0.05	0.34	-0.19	-0.20	7320	9.9
15	F071	A	0.539	0.031	0.23	0.18	0.003	0.23	0.28	0.21	0.28	0.18	0.08	-0.05	-0.19	7307	9.9
16	F071	B	0.218	0.026	0.42	0.25	0.004	0.23	0.42	0.19	0.16	-0.05	0.25	-0.20	-0.05	7316	9.9
17	F071	D	2.246	0.028	0.73	0.55	0.002	0.14	0.04	0.10	0.73	-0.40	-0.19	-0.23	0.55	7330	-9.9
18	F071	D	0.922	0.026	0.59	0.46	0.003	0.19	0.15	0.07	0.59	-0.16	-0.26	-0.27	0.46	7306	1.5
19	F071	B	-1.015	0.028	0.68	0.57	0.006	0.11	0.68	0.10	0.11	-0.32	0.57	-0.26	-0.25	7337	-9.8
20	F071	B	-0.123	0.035	0.85	0.49	0.003	0.07	0.85	0.05	0.03	-0.29	0.49	-0.25	-0.24	7354	-7.0
1	F072	C	0.298	0.025	0.49	0.51	0.006	0.21	0.11	0.49	0.19	-0.17	-0.19	0.51	-0.31	7953	-5.3
2	F072	D	0.744	0.038	0.88	0.36	0.003	0.03	0.07	0.02	0.88	-0.21	-0.19	-0.20	0.36	7395	-0.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	F072	B	0.501	0.031	0.78	0.46	0.004	0.07	0.78	0.13	0.02	-0.23	0.46	-0.30	-0.19	7392	-3.6
4	F072	B	0.765	0.026	0.55	0.49	0.005	0.17	0.55	0.14	0.13	-0.24	0.49	-0.18	-0.24	7394	-3.8
5	F072	D	0.893	0.029	0.27	0.29	0.003	0.43	0.19	0.11	0.27	-0.22	-0.01	-0.05	0.29	7387	9.9
6	F072	C	2.891	0.056	0.95	0.28	0.002	0.01	0.01	0.95	0.02	-0.15	-0.13	0.28	-0.17	7388	-2.0
7	F072	C	1.740	0.035	0.85	0.35	0.005	0.09	0.04	0.85	0.02	-0.29	-0.09	0.35	-0.13	7391	1.3
8	F072	A	0.946	0.027	0.67	0.56	0.003	0.67	0.19	0.08	0.05	0.56	-0.35	-0.28	-0.21	7394	-9.9
9	F072	D	0.918	0.027	0.62	0.39	0.005	0.09	0.18	0.10	0.62	-0.07	-0.26	-0.20	0.39	7395	5.6
10	F072	D	0.405	0.027	0.65	0.40	0.003	0.03	0.27	0.05	0.65	-0.19	-0.22	-0.26	0.40	7377	4.0
11	F072	D	-0.463	0.026	0.54	0.55	0.004	0.18	0.12	0.15	0.54	-0.20	-0.27	-0.28	0.55	7377	-9.9
12	F072	A	-1.001	0.028	0.67	0.42	0.005	0.67	0.15	0.07	0.10	0.42	-0.21	-0.19	-0.21	7357	1.5
13	F072	D	-1.265	0.026	0.54	0.56	0.004	0.17	0.17	0.12	0.54	-0.23	-0.27	-0.27	0.56	7335	-8.7
14	F072	D	0.991	0.028	0.30	0.21	0.005	0.18	0.14	0.39	0.30	-0.16	-0.17	0.06	0.21	7320	9.9
15	F072	D	2.487	0.033	0.82	0.55	0.003	0.08	0.04	0.07	0.82	-0.36	-0.24	-0.27	0.55	7307	-8.7
16	F072	D	1.296	0.027	0.64	0.39	0.004	0.04	0.25	0.06	0.64	-0.22	-0.20	-0.20	0.39	7316	5.4
17	F072	D	-0.276	0.027	0.63	0.48	0.004	0.06	0.24	0.07	0.63	-0.21	-0.24	-0.28	0.48	7330	-2.2
18	F072	A	0.620	0.031	0.79	0.53	0.004	0.79	0.05	0.10	0.06	0.53	-0.23	-0.28	-0.33	7306	-9.1
19	F072	D	0.023	0.026	0.49	0.36	0.006	0.24	0.16	0.11	0.49	-0.10	-0.19	-0.18	0.36	7337	9.9
20	F072	C	-1.200	0.030	0.77	0.41	0.004	0.01	0.14	0.77	0.07	-0.14	-0.21	0.41	-0.31	7354	0.7

Appendix L:

**2005 Field Test Grade 11 Multiple Choice Statistics for
Mathematics**

2005 Field Test Grade 11 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	F005	C	0.087	0.028	0.58	0.47	0.004	0.11	0.18	0.58	0.14	-0.21	-0.25	0.47	-0.19	6942	1.8
2	F005	A	-0.485	0.030	0.69	0.58	0.002	0.69	0.03	0.26	0.01	0.58	-0.22	-0.47	-0.12	6569	-9.1
3	F005	A	-0.398	0.030	0.67	0.57	0.002	0.67	0.18	0.07	0.08	0.57	-0.36	-0.29	-0.19	6581	-6.4
4	F005	B	-1.685	0.037	0.85	0.38	0.003	0.04	0.85	0.05	0.06	-0.17	0.38	-0.24	-0.19	6542	-1.9
5	F005	B	0.437	0.029	0.54	0.38	0.005	0.22	0.54	0.13	0.11	-0.07	0.38	-0.25	-0.24	6531	9.9
6	F005	B	1.410	0.030	0.36	0.27	0.003	0.11	0.36	0.35	0.17	-0.09	0.27	-0.24	0.04	6544	9.9
7	F005	B	0.858	0.029	0.45	0.26	0.004	0.28	0.45	0.17	0.10	-0.05	0.26	-0.20	-0.08	6544	9.9
8	F005	C	1.500	0.030	0.33	0.14	0.002	0.39	0.20	0.33	0.08	0.17	-0.27	0.14	-0.12	6560	9.9
9	F005	B	-1.034	0.033	0.78	0.38	0.002	0.13	0.78	0.05	0.03	-0.27	0.38	-0.19	-0.12	6552	6.4
10	F005	C	0.053	0.028	0.59	0.46	0.003	0.11	0.17	0.59	0.13	-0.20	-0.28	0.46	-0.16	6554	0.9
11	F005	A	-0.477	0.030	0.69	0.56	0.002	0.69	0.03	0.26	0.01	0.56	-0.21	-0.47	-0.11	6512	-7.9
12	F005	A	-0.383	0.029	0.67	0.58	0.003	0.67	0.18	0.07	0.07	0.58	-0.36	-0.31	-0.20	6542	-9.9
13	F005	B	-1.640	0.037	0.85	0.37	0.003	0.04	0.85	0.05	0.05	-0.15	0.37	-0.24	-0.19	6541	-0.5
14	F005	B	0.453	0.028	0.53	0.39	0.003	0.22	0.53	0.13	0.11	-0.07	0.39	-0.26	-0.23	6518	9.0
15	F005	B	1.372	0.029	0.36	0.26	0.003	0.11	0.36	0.35	0.17	-0.06	0.26	-0.25	0.05	6519	9.9
16	F005	B	0.800	0.029	0.46	0.26	0.003	0.28	0.46	0.16	0.10	-0.06	0.26	-0.20	-0.08	6511	9.9
17	F005	C	1.610	0.031	0.32	0.15	0.004	0.39	0.21	0.32	0.08	0.17	-0.28	0.15	-0.11	6531	9.9
18	F005	B	-0.911	0.032	0.77	0.38	0.002	0.14	0.77	0.06	0.03	-0.26	0.38	-0.20	-0.12	6514	5.7
19	F005	C	0.128	0.029	0.59	0.47	0.003	0.12	0.18	0.59	0.12	-0.19	-0.27	0.47	-0.19	6559	2.2
20	F005	A	-0.331	0.030	0.68	0.56	0.001	0.68	0.04	0.27	0.01	0.56	-0.20	-0.47	-0.11	6534	-7.4
1	F066	B	2.649	0.036	0.16	0.25	0.004	0.26	0.16	0.16	0.41	0.09	0.25	-0.01	-0.25	6942	9.9
2	F066	B	0.887	0.028	0.44	0.43	0.005	0.13	0.44	0.35	0.07	-0.39	0.43	-0.14	-0.02	6569	9.4
3	F066	C	-0.769	0.031	0.74	0.44	0.003	0.11	0.06	0.74	0.09	-0.31	-0.22	0.44	-0.13	6581	2.1
4	F066	A	-0.014	0.028	0.60	0.40	0.004	0.60	0.19	0.12	0.09	0.40	-0.23	-0.15	-0.18	6542	7.4
5	F066	D	1.429	0.030	0.36	0.54	0.004	0.34	0.22	0.08	0.36	-0.26	-0.21	-0.15	0.54	6531	-1.0
6	F066	B	0.385	0.028	0.55	0.44	0.005	0.15	0.55	0.20	0.10	-0.13	0.44	-0.28	-0.18	6544	4.5
7	F066	C	-1.462	0.036	0.83	0.51	0.004	0.05	0.07	0.83	0.05	-0.25	-0.30	0.51	-0.27	6544	-8.9
8	F066	D	-0.684	0.031	0.72	0.42	0.003	0.02	0.21	0.04	0.72	-0.18	-0.25	-0.26	0.42	6560	1.6
9	F066	B	0.365	0.028	0.55	0.32	0.003	0.19	0.55	0.19	0.06	-0.28	0.32	-0.04	-0.12	6552	9.9
10	F066	B	0.336	0.028	0.54	0.46	0.004	0.18	0.54	0.13	0.15	-0.14	0.46	-0.22	-0.27	6554	3.5
11	F066	A	1.936	0.032	0.27	0.13	0.013	0.27	0.25	0.29	0.18	0.13	-0.15	0.04	-0.02	6512	9.9
12	F066	A	1.610	0.030	0.30	0.18	0.009	0.30	0.24	0.39	0.06	0.18	-0.09	-0.03	-0.13	6542	9.9
13	F066	D	-1.808	0.039	0.87	0.40	0.004	0.02	0.03	0.07	0.87	-0.19	-0.19	-0.25	0.40	6541	-3.2
14	F066	D	2.289	0.034	0.22	0.25	0.006	0.21	0.32	0.24	0.22	-0.37	0.09	0.02	0.25	6518	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	F066	B	1.432	0.030	0.35	0.37	0.010	0.14	0.35	0.35	0.15	-0.09	0.37	-0.23	-0.09	6519	9.9
16	F066	A	0.756	0.028	0.47	0.45	0.010	0.47	0.19	0.23	0.11	0.45	-0.15	-0.22	-0.22	6511	4.3
17	F066	D	0.601	0.029	0.55	0.54	0.009	0.16	0.15	0.14	0.55	-0.27	-0.22	-0.25	0.54	6531	-2.1
18	F066	D	-0.318	0.030	0.69	0.51	0.004	0.06	0.15	0.10	0.69	-0.22	-0.39	-0.14	0.51	6514	-2.8
19	F066	B	0.765	0.029	0.52	0.55	0.004	0.26	0.52	0.11	0.11	-0.37	0.55	-0.13	-0.23	6559	-0.9
20	F066	B	0.485	0.028	0.56	0.46	0.002	0.15	0.56	0.13	0.16	-0.23	0.46	-0.33	-0.09	6534	4.4
1	F067	A	1.326	0.029	0.35	0.41	0.015	0.35	0.22	0.26	0.16	0.41	-0.15	-0.25	-0.06	6942	9.0
2	F067	D	2.311	0.034	0.21	0.37	0.005	0.41	0.25	0.12	0.21	-0.33	0.05	-0.00	0.37	6569	5.6
3	F067	A	1.093	0.029	0.40	0.44	0.008	0.40	0.25	0.14	0.20	0.44	-0.18	-0.23	-0.13	6581	7.5
4	F067	B	1.512	0.030	0.31	0.41	0.005	0.30	0.31	0.12	0.27	-0.06	0.41	-0.16	-0.23	6542	6.3
5	F067	A	-0.040	0.029	0.62	0.56	0.005	0.62	0.07	0.14	0.17	0.56	-0.20	-0.33	-0.27	6531	-6.1
6	F067	C	-0.699	0.031	0.74	0.39	0.004	0.07	0.06	0.74	0.13	-0.22	-0.25	0.39	-0.16	6544	7.5
7	F067	B	0.405	0.028	0.53	0.42	0.003	0.26	0.53	0.13	0.08	-0.05	0.42	-0.29	-0.31	6544	6.0
8	F067	A	0.046	0.028	0.60	0.57	0.003	0.60	0.11	0.11	0.18	0.57	-0.27	-0.32	-0.23	6560	-7.0
9	F067	A	2.294	0.034	0.22	0.30	0.005	0.22	0.17	0.35	0.25	0.30	-0.00	-0.05	-0.22	6552	9.9
10	F067	D	-0.020	0.029	0.60	0.48	0.005	0.05	0.20	0.15	0.60	-0.13	-0.25	-0.28	0.48	6554	-0.4
11	F067	C	0.205	0.029	0.57	0.46	0.007	0.10	0.26	0.57	0.06	-0.19	-0.32	0.46	-0.10	6512	3.8
12	F067	B	-0.108	0.028	0.62	0.47	0.005	0.14	0.62	0.16	0.07	-0.18	0.47	-0.27	-0.23	6542	-1.7
13	F067	C	-0.665	0.030	0.72	0.49	0.004	0.07	0.11	0.72	0.10	-0.29	-0.25	0.49	-0.20	6541	-5.2
14	F067	C	0.813	0.029	0.47	0.48	0.004	0.32	0.11	0.47	0.10	-0.09	-0.36	0.48	-0.26	6518	3.9
15	F067	D	-0.380	0.030	0.68	0.60	0.004	0.11	0.10	0.10	0.68	-0.30	-0.30	-0.29	0.60	6519	-9.9
16	F067	D	-2.708	0.054	0.94	0.30	0.002	0.03	0.02	0.02	0.94	-0.19	-0.15	-0.16	0.30	6511	-2.2
17	F067	C	-1.111	0.033	0.80	0.56	0.004	0.09	0.07	0.80	0.03	-0.36	-0.30	0.56	-0.20	6531	-9.9
18	F067	B	0.125	0.029	0.62	0.47	0.005	0.14	0.62	0.15	0.08	-0.27	0.47	-0.23	-0.16	6514	1.4
19	F067	C	-0.770	0.031	0.76	0.50	0.002	0.07	0.13	0.76	0.04	-0.21	-0.36	0.50	-0.20	6559	-5.3
20	F067	A	0.890	0.029	0.48	0.21	0.003	0.48	0.27	0.15	0.09	0.21	0.00	-0.06	-0.28	6534	9.9
1	F068	B	-0.154	0.028	0.62	0.23	0.006	0.07	0.62	0.11	0.20	-0.12	0.23	-0.18	-0.06	6942	9.9
2	F068	B	0.003	0.029	0.61	0.56	0.005	0.09	0.61	0.19	0.11	-0.16	0.56	-0.34	-0.28	6569	-7.6
3	F068	B	-0.106	0.029	0.62	0.36	0.002	0.27	0.62	0.06	0.04	-0.18	0.36	-0.24	-0.14	6581	7.4
4	F068	C	0.326	0.028	0.53	0.52	0.005	0.10	0.14	0.53	0.23	-0.21	-0.28	0.52	-0.22	6542	-2.2
5	F068	B	0.771	0.029	0.47	0.44	0.008	0.10	0.47	0.21	0.21	-0.19	0.44	-0.14	-0.25	6531	6.9
6	F068	C	1.274	0.029	0.38	0.44	0.005	0.10	0.22	0.38	0.29	-0.18	-0.21	0.44	-0.15	6544	7.3
7	F068	D	0.552	0.028	0.50	0.49	0.007	0.21	0.13	0.15	0.50	-0.24	-0.19	-0.21	0.49	6544	0.5
8	F068	A	-2.101	0.043	0.90	0.34	0.003	0.90	0.04	0.02	0.04	0.34	-0.19	-0.17	-0.18	6560	-2.0
9	F068	C	1.138	0.029	0.41	0.48	0.005	0.28	0.23	0.41	0.08	-0.18	-0.29	0.48	-0.08	6552	4.9
10	F068	C	0.397	0.028	0.52	0.48	0.003	0.16	0.16	0.52	0.15	-0.12	-0.29	0.48	-0.23	6554	1.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	F068	C	-0.028	0.029	0.62	0.47	0.005	0.15	0.18	0.62	0.05	-0.29	-0.24	0.47	-0.12	6512	1.2
12	F068	B	2.072	0.033	0.23	0.10	0.004	0.59	0.23	0.08	0.10	0.02	0.10	-0.10	-0.06	6542	9.9
13	F068	B	-0.553	0.030	0.70	0.49	0.005	0.12	0.70	0.14	0.05	-0.22	0.49	-0.32	-0.18	6541	-5.2
14	F068	B	-1.582	0.037	0.85	0.48	0.003	0.04	0.85	0.07	0.03	-0.24	0.48	-0.31	-0.21	6518	-6.8
15	F068	B	0.754	0.028	0.48	0.34	0.011	0.21	0.48	0.17	0.13	-0.12	0.34	-0.13	-0.20	6519	9.9
16	F068	A	0.374	0.028	0.54	0.56	0.005	0.54	0.18	0.15	0.13	0.56	-0.17	-0.34	-0.26	6511	-3.8
17	F068	D	-1.344	0.035	0.84	0.51	0.004	0.03	0.06	0.07	0.84	-0.22	-0.30	-0.29	0.51	6531	-9.6
18	F068	D	-0.852	0.032	0.78	0.52	0.004	0.09	0.05	0.08	0.78	-0.34	-0.26	-0.21	0.52	6514	-6.0
19	F068	A	0.899	0.029	0.48	0.52	0.007	0.48	0.22	0.14	0.16	0.52	-0.29	-0.20	-0.18	6559	2.0
20	F068	C	1.162	0.029	0.43	0.41	0.006	0.12	0.26	0.43	0.19	-0.15	-0.26	0.41	-0.09	6534	9.9
1	F069	C	-0.101	0.028	0.61	0.48	0.006	0.09	0.15	0.61	0.14	-0.27	-0.20	0.48	-0.22	6942	0.4
2	F069	B	0.282	0.028	0.56	0.41	0.006	0.15	0.56	0.16	0.13	-0.29	0.41	-0.18	-0.10	6569	5.6
3	F069	C	-0.655	0.031	0.72	0.44	0.003	0.09	0.14	0.72	0.06	-0.31	-0.16	0.44	-0.22	6581	4.7
4	F069	C	-0.140	0.029	0.62	0.23	0.008	0.11	0.11	0.62	0.16	-0.16	-0.21	0.23	0.02	6542	9.9
5	F069	A	0.155	0.029	0.59	0.57	0.007	0.59	0.13	0.16	0.11	0.57	-0.21	-0.31	-0.27	6531	-6.2
6	F069	B	1.761	0.031	0.30	0.43	0.004	0.29	0.30	0.19	0.21	-0.11	0.43	-0.16	-0.20	6544	7.8
7	F069	C	-0.309	0.029	0.66	0.35	0.006	0.12	0.14	0.66	0.07	-0.18	-0.20	0.35	-0.12	6544	7.8
8	F069	D	-0.399	0.030	0.68	0.54	0.005	0.05	0.15	0.12	0.68	-0.24	-0.27	-0.30	0.54	6560	-3.4
9	F069	D	0.556	0.028	0.51	0.54	0.004	0.21	0.11	0.16	0.51	-0.29	-0.19	-0.23	0.54	6552	-2.9
10	F069	D	0.309	0.028	0.54	0.39	0.004	0.11	0.16	0.18	0.54	-0.21	-0.29	-0.05	0.39	6554	9.9
11	F069	D	-0.001	0.029	0.61	0.57	0.004	0.06	0.07	0.26	0.61	-0.25	-0.26	-0.33	0.57	6512	-6.8
12	F069	C	1.855	0.031	0.26	0.07	0.009	0.30	0.34	0.26	0.09	-0.10	0.10	0.07	-0.12	6542	9.9
13	F069	C	1.088	0.029	0.39	0.23	0.010	0.29	0.25	0.39	0.07	-0.07	-0.13	0.23	-0.08	6541	9.9
14	F069	D	1.157	0.029	0.40	0.48	0.006	0.20	0.13	0.26	0.40	-0.21	-0.26	-0.14	0.48	6518	3.7
15	F069	A	0.101	0.029	0.60	0.34	0.005	0.60	0.08	0.07	0.24	0.34	-0.19	-0.21	-0.12	6519	9.9
16	F069	C	-0.674	0.031	0.73	0.42	0.004	0.03	0.14	0.73	0.10	-0.16	-0.22	0.42	-0.27	6511	-0.7
17	F069	B	2.721	0.037	0.20	0.19	0.004	0.25	0.20	0.03	0.51	-0.12	0.19	-0.15	0.02	6531	9.9
18	F069	B	0.418	0.029	0.58	0.49	0.004	0.21	0.58	0.15	0.06	-0.23	0.49	-0.25	-0.21	6514	1.7
19	F069	D	-0.361	0.030	0.71	0.48	0.004	0.09	0.10	0.10	0.71	-0.22	-0.28	-0.22	0.48	6559	-1.5
20	F069	C	0.890	0.029	0.48	0.55	0.002	0.06	0.24	0.48	0.21	-0.31	-0.43	0.55	-0.03	6534	-2.4
1	F070	B	-0.548	0.029	0.69	0.53	0.006	0.19	0.69	0.08	0.04	-0.39	0.53	-0.24	-0.11	6942	-6.4
2	F070	C	1.417	0.030	0.35	0.19	0.005	0.29	0.21	0.35	0.15	0.12	-0.15	0.19	-0.21	6569	9.9
3	F070	A	1.199	0.029	0.38	0.23	0.004	0.38	0.22	0.26	0.14	0.23	-0.04	-0.21	0.01	6581	9.9
4	F070	A	-0.275	0.029	0.65	0.55	0.004	0.65	0.17	0.12	0.06	0.55	-0.36	-0.24	-0.18	6542	-7.9
5	F070	B	0.307	0.029	0.56	0.58	0.005	0.16	0.56	0.09	0.19	-0.20	0.58	-0.16	-0.41	6531	-5.9
6	F070	B	2.156	0.033	0.24	0.11	0.004	0.19	0.24	0.07	0.49	-0.05	0.11	-0.16	0.04	6544	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	F070	B	1.175	0.029	0.39	0.35	0.005	0.42	0.39	0.09	0.09	-0.11	0.35	-0.23	-0.15	6544	9.9
8	F070	A	0.556	0.028	0.50	0.55	0.006	0.50	0.25	0.17	0.08	0.55	-0.38	-0.21	-0.10	6560	-3.3
9	F070	D	2.629	0.036	0.18	0.19	0.006	0.19	0.44	0.19	0.18	-0.25	0.11	-0.06	0.19	6552	9.9
10	F070	D	0.817	0.028	0.45	0.43	0.003	0.11	0.20	0.25	0.45	-0.23	-0.33	-0.02	0.43	6554	6.0
11	F070	A	-0.916	0.032	0.76	0.48	0.004	0.76	0.06	0.13	0.05	0.48	-0.25	-0.28	-0.23	6512	-3.9
12	F070	D	0.647	0.028	0.48	0.44	0.008	0.13	0.21	0.18	0.48	-0.14	-0.21	-0.21	0.44	6542	3.5
13	F070	B	1.082	0.029	0.39	0.40	0.005	0.19	0.39	0.32	0.09	-0.29	0.40	-0.01	-0.24	6541	9.7
14	F070	B	0.689	0.029	0.49	0.48	0.004	0.17	0.49	0.30	0.05	-0.24	0.48	-0.24	-0.16	6518	3.9
15	F070	D	1.761	0.031	0.30	0.44	0.007	0.22	0.24	0.24	0.30	-0.19	-0.11	-0.16	0.44	6519	7.9
16	F070	A	1.117	0.029	0.40	0.31	0.009	0.40	0.34	0.16	0.10	0.31	-0.19	-0.06	-0.11	6511	9.9
17	F070	C	0.446	0.029	0.58	0.53	0.005	0.13	0.19	0.58	0.09	-0.20	-0.37	0.53	-0.14	6531	-2.7
18	F070	D	1.302	0.030	0.42	0.49	0.009	0.22	0.20	0.15	0.42	-0.19	-0.20	-0.21	0.49	6514	5.9
19	F070	D	0.112	0.029	0.61	0.60	0.005	0.10	0.08	0.21	0.61	-0.27	-0.26	-0.34	0.60	6559	-9.9
20	F070	A	0.053	0.029	0.66	0.41	0.004	0.66	0.16	0.11	0.07	0.41	-0.26	-0.23	-0.09	6534	2.6
1	F071	C	0.071	0.028	0.58	0.35	0.007	0.07	0.23	0.58	0.11	-0.23	-0.09	0.35	-0.23	6942	9.9
2	F071	D	2.279	0.034	0.22	0.16	0.005	0.09	0.42	0.27	0.22	-0.15	0.05	-0.10	0.16	6569	9.9
3	F071	C	-0.210	0.029	0.64	0.57	0.003	0.16	0.08	0.64	0.11	-0.34	-0.23	0.57	-0.25	6581	-8.5
4	F071	C	-0.691	0.030	0.72	0.50	0.005	0.09	0.10	0.72	0.09	-0.26	-0.27	0.50	-0.22	6542	-5.1
5	F071	A	1.400	0.030	0.36	0.34	0.004	0.36	0.11	0.18	0.34	0.34	-0.10	-0.11	-0.18	6531	9.9
6	F071	A	-0.898	0.032	0.77	0.52	0.003	0.77	0.12	0.06	0.05	0.52	-0.31	-0.28	-0.21	6544	-5.3
7	F071	C	0.817	0.029	0.45	0.37	0.005	0.26	0.15	0.45	0.13	-0.03	-0.28	0.37	-0.19	6544	9.9
8	F071	C	0.464	0.028	0.52	0.27	0.003	0.36	0.05	0.52	0.07	0.00	-0.27	0.27	-0.28	6560	9.9
9	F071	C	1.568	0.030	0.33	0.12	0.009	0.14	0.46	0.33	0.07	-0.11	0.03	0.12	-0.12	6552	9.9
10	F071	C	0.450	0.028	0.51	0.29	0.005	0.07	0.12	0.51	0.29	-0.14	-0.06	0.29	-0.19	6554	9.9
11	F071	C	-0.311	0.030	0.67	0.46	0.004	0.21	0.08	0.67	0.05	-0.28	-0.18	0.46	-0.24	6512	2.6
12	F071	D	1.184	0.029	0.38	0.44	0.004	0.28	0.19	0.15	0.38	-0.03	-0.18	-0.35	0.44	6542	4.0
13	F071	D	1.580	0.030	0.30	0.42	0.006	0.39	0.12	0.18	0.30	-0.05	-0.28	-0.18	0.42	6541	5.6
14	F071	A	2.632	0.036	0.18	0.09	0.013	0.18	0.23	0.36	0.22	0.09	-0.07	-0.06	0.05	6518	9.9
15	F071	A	-0.052	0.029	0.63	0.44	0.006	0.63	0.14	0.08	0.15	0.44	-0.20	-0.18	-0.26	6519	1.0
16	F071	D	0.857	0.029	0.45	0.46	0.007	0.18	0.18	0.19	0.45	-0.13	-0.20	-0.25	0.46	6511	4.7
17	F071	A	-0.379	0.030	0.71	0.56	0.005	0.71	0.09	0.17	0.03	0.56	-0.31	-0.34	-0.21	6531	-9.9
18	F071	C	-1.129	0.034	0.82	0.48	0.004	0.07	0.05	0.82	0.06	-0.29	-0.23	0.48	-0.23	6514	-6.4
19	F071	A	0.263	0.029	0.60	0.59	0.004	0.60	0.17	0.10	0.13	0.59	-0.29	-0.31	-0.25	6559	-8.8
20	F071	B	0.938	0.029	0.50	0.40	0.003	0.14	0.50	0.30	0.05	-0.16	0.40	-0.23	-0.16	6534	9.9
1	F072	A	1.211	0.029	0.37	0.51	0.008	0.37	0.18	0.11	0.33	0.51	-0.21	-0.17	-0.22	6942	2.2
2	F072	B	-0.114	0.029	0.63	0.51	0.008	0.10	0.63	0.18	0.09	-0.23	0.51	-0.28	-0.23	6569	-4.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	F072	A	0.659	0.028	0.48	0.59	0.005	0.48	0.16	0.21	0.14	0.59	-0.13	-0.36	-0.26	6581	-7.8
4	F072	D	1.136	0.029	0.38	0.50	0.008	0.20	0.24	0.17	0.38	-0.28	-0.17	-0.14	0.50	6542	0.7
5	F072	D	0.051	0.029	0.61	0.47	0.004	0.15	0.09	0.15	0.61	-0.24	-0.29	-0.15	0.47	6531	2.9
6	F072	C	-0.704	0.031	0.74	0.45	0.004	0.21	0.02	0.74	0.03	-0.37	-0.11	0.45	-0.14	6544	1.8
7	F072	A	-2.100	0.043	0.90	0.37	0.003	0.90	0.05	0.03	0.03	0.37	-0.20	-0.20	-0.21	6544	-1.4
8	F072	A	0.895	0.028	0.44	0.48	0.007	0.44	0.21	0.18	0.16	0.48	-0.11	-0.25	-0.24	6560	3.1
9	F072	A	-0.447	0.030	0.69	0.45	0.004	0.69	0.12	0.10	0.08	0.45	-0.20	-0.24	-0.25	6552	2.5
10	F072	A	0.305	0.028	0.54	0.39	0.005	0.54	0.15	0.13	0.17	0.39	-0.16	-0.18	-0.19	6554	7.7
11	F072	A	1.301	0.029	0.37	0.32	0.005	0.37	0.11	0.44	0.07	0.32	-0.18	-0.10	-0.16	6512	9.9
12	F072	C	1.505	0.030	0.32	0.28	0.010	0.16	0.24	0.32	0.27	-0.23	-0.03	0.28	-0.05	6542	9.9
13	F072	B	0.707	0.028	0.46	0.52	0.005	0.02	0.46	0.20	0.32	-0.13	0.52	-0.34	-0.22	6541	-3.3
14	F072	B	-1.288	0.035	0.82	0.37	0.004	0.08	0.82	0.07	0.02	-0.24	0.37	-0.20	-0.14	6518	3.2
15	F072	B	-0.353	0.030	0.68	0.40	0.006	0.09	0.68	0.17	0.05	-0.18	0.40	-0.22	-0.21	6519	7.0
16	F072	A	2.028	0.033	0.25	0.43	0.005	0.25	0.36	0.06	0.32	0.43	-0.21	-0.19	-0.07	6511	6.0
17	F072	A	1.792	0.031	0.32	0.49	0.006	0.32	0.08	0.35	0.24	0.49	-0.07	-0.40	-0.03	6531	7.8
18	F072	C	1.241	0.029	0.42	0.42	0.007	0.10	0.30	0.42	0.17	-0.16	-0.20	0.42	-0.16	6514	9.9
19	F072	B	-0.739	0.031	0.75	0.50	0.004	0.04	0.75	0.06	0.15	-0.21	0.50	-0.27	-0.30	6559	-5.6
20	F072	C	0.693	0.028	0.54	0.25	0.005	0.03	0.17	0.54	0.26	-0.16	-0.09	0.25	-0.13	6534	9.9

Appendix M:

**2005 Field Test Grade 5 Constructed Response Statistics for
Reading**

2005 Field Test Grade 5 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	F085	1.6921	0.0189	0.71	0.40	0.06	0.24	0.16	0.05	0.002	-0.23	0.05	0.27	0.23	7273	9.6
2	F085	1.7562	0.0191	1.25	0.37	0.02	0.10	0.23	0.23	0.002	-0.27	-0.24	0.08	0.36	6810	6.3
3	F085	1.7368	0.0194	1.01	0.37	0.06	0.14	0.21	0.15	0.002	-0.31	-0.12	0.17	0.31	6803	6.6
4	F085	1.7838	0.0196	1.19	0.41	0.04	0.10	0.24	0.20	0.002	-0.37	-0.21	0.15	0.36	6785	8.8
5	F085	1.7326	0.0192	1.00	0.39	0.05	0.17	0.17	0.17	0.004	-0.29	-0.16	0.15	0.36	6770	6.4
6	F085	1.8336	0.0195	1.89	0.58	0.05	0.20	0.45	0.27	0.003	-0.40	-0.32	0.13	0.39	6774	6.4
7	F085	1.7112	0.0191	0.89	0.34	0.03	0.16	0.23	0.09	0.003	-0.24	-0.18	0.23	0.27	6783	5.2
8	F085	1.6824	0.0192	0.89	0.31	0.02	0.16	0.24	0.08	0.002	-0.22	-0.15	0.20	0.24	6819	6.1
9	F085	1.7337	0.0193	1.18	0.41	0.05	0.17	0.25	0.17	0.004	-0.36	-0.18	0.18	0.34	6795	7.8
10	F085	1.8092	0.0197	1.08	0.38	0.05	0.21	0.25	0.13	0.002	-0.34	-0.16	0.20	0.31	6790	7.0
11	F085	1.7284	0.0194	1.14	0.44	0.14	0.31	0.25	0.11	0.004	-0.37	-0.06	0.24	0.28	6791	7.4
12	F085	1.7801	0.0194	1.12	0.36	0.02	0.12	0.17	0.22	0.002	-0.24	-0.27	0.07	0.39	6773	9.6
13	F085	1.7954	0.0195	1.30	0.36	0.02	0.08	0.27	0.23	0.004	-0.29	-0.28	0.05	0.38	6771	6.3
14	F085	1.7674	0.0195	1.19	0.46	0.08	0.21	0.27	0.15	0.002	-0.41	-0.19	0.23	0.35	6769	8.5
15	F085	1.7828	0.0195	1.21	0.33	0.02	0.14	0.23	0.21	0.002	-0.21	-0.22	0.10	0.31	6750	7.9
16	F085	1.7443	0.0195	0.81	0.38	0.14	0.16	0.20	0.08	0.003	-0.23	-0.09	0.24	0.28	6758	5.9
17	F085	1.9405	0.0195	1.93	0.60	0.09	0.17	0.44	0.30	0.003	-0.44	-0.30	0.15	0.38	6777	8.2
18	F085	1.8802	0.0195	1.85	0.48	0.04	0.16	0.39	0.30	0.002	-0.33	-0.28	0.06	0.38	6730	7.1
19	F085	1.8280	0.0195	1.44	0.50	0.09	0.37	0.37	0.11	0.004	-0.32	-0.30	0.31	0.30	6734	7.3
20	F085	1.8229	0.0194	1.30	0.36	0.02	0.09	0.28	0.22	0.003	-0.31	-0.27	0.11	0.34	6707	6.7

Appendix N:

**2005 Field Test Grade 8 Constructed Response Statistics for
Reading**

2005 Field Test Grade 8 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	F084	0.1909	0.0179	0.85	0.41	0.05	0.09	0.19	0.13	0.002	-0.26	-0.09	0.21	0.32	7853	2.4
2	F084	0.2125	0.0183	0.67	0.40	0.15	0.10	0.17	0.08	0.004	-0.27	0.01	0.24	0.28	7382	2.5
3	F084	0.2090	0.0185	0.93	0.35	0.03	0.10	0.29	0.08	0.004	-0.27	-0.19	0.24	0.26	7363	1.7
4	F084	0.2569	0.0183	1.18	0.37	0.04	0.05	0.12	0.30	0.004	-0.33	-0.17	0.05	0.36	7383	4.2
5	F084	0.2440	0.0181	0.94	0.34	0.03	0.08	0.30	0.09	0.002	-0.26	-0.23	0.25	0.24	7364	-0.2
6	F084	0.2282	0.0182	1.01	0.32	0.01	0.08	0.28	0.13	0.004	-0.20	-0.22	0.14	0.30	7361	0.1
7	F084	0.2590	0.0183	0.98	0.33	0.03	0.11	0.22	0.15	0.003	-0.28	-0.13	0.13	0.29	7378	1.7
8	F084	0.2185	0.0183	1.02	0.37	0.04	0.09	0.19	0.18	0.004	-0.33	-0.16	0.12	0.34	7374	1.6
9	F084	0.2211	0.0183	0.92	0.39	0.05	0.11	0.20	0.14	0.003	-0.32	-0.13	0.19	0.32	7385	2.6
10	F084	0.2159	0.0181	1.00	0.32	0.02	0.09	0.26	0.13	0.002	-0.25	-0.17	0.13	0.29	7361	-0.6
11	F084	0.2918	0.0184	1.02	0.33	0.02	0.11	0.19	0.18	0.004	-0.28	-0.18	0.12	0.31	7350	2.9
12	F084	0.2188	0.0183	0.68	0.34	0.11	0.15	0.17	0.06	0.002	-0.21	-0.03	0.23	0.23	7341	0.6
13	F084	0.1857	0.0182	0.92	0.33	0.03	0.10	0.26	0.10	0.004	-0.29	-0.15	0.19	0.27	7315	1.0
14	F084	0.2540	0.0183	0.90	0.36	0.04	0.14	0.21	0.11	0.002	-0.26	-0.15	0.20	0.30	7303	1.8
15	F084	0.2319	0.0183	0.96	0.38	0.04	0.12	0.16	0.17	0.003	-0.25	-0.17	0.11	0.37	7292	3.2
16	F084	0.2484	0.0186	0.99	0.40	0.07	0.07	0.15	0.20	0.001	-0.34	-0.10	0.09	0.38	7295	2.9
17	F084	0.4696	0.0184	1.08	0.35	0.02	0.07	0.20	0.20	0.003	-0.27	-0.24	0.08	0.36	7314	3.1
18	F084	0.4373	0.0185	0.91	0.37	0.05	0.13	0.17	0.15	0.004	-0.31	-0.11	0.16	0.31	7287	0.3
19	F084	0.4309	0.0184	0.82	0.35	0.05	0.16	0.19	0.09	0.005	-0.26	-0.07	0.22	0.25	7333	3.2
20	F084	0.4579	0.0183	0.77	0.36	0.12	0.10	0.16	0.11	0.002	-0.17	-0.11	0.16	0.32	7347	1.3

Appendix O:

**2005 Field Test Grade 11 Constructed Response Statistics
for Reading**

2005 Field Test Grade 11 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	F084	0.2602	0.0201	1.96	0.66	0.04	0.20	0.49	0.26	0.009	-0.37	-0.38	0.17	0.39	6890	-9.2
2	F084	0.3382	0.0216	2.02	0.70	0.10	0.17	0.33	0.40	0.005	-0.50	-0.28	0.05	0.51	6546	-6.9
3	F084	0.2419	0.0214	2.21	0.67	0.02	0.15	0.43	0.40	0.005	-0.31	-0.45	-0.04	0.49	6555	-7.0
4	F084	0.2560	0.0211	2.07	0.69	0.05	0.15	0.47	0.32	0.004	-0.44	-0.39	0.09	0.44	6526	-7.5
5	F084	0.3085	0.0210	1.99	0.62	0.04	0.22	0.45	0.29	0.005	-0.34	-0.37	0.11	0.41	6520	-7.3
6	F084	0.3208	0.0212	2.03	0.60	0.03	0.18	0.51	0.28	0.004	-0.34	-0.38	0.09	0.39	6532	-7.4
7	F084	0.3203	0.0213	1.98	0.70	0.10	0.18	0.36	0.36	0.004	-0.50	-0.30	0.10	0.49	6529	-5.9
8	F084	0.3819	0.0213	2.21	0.66	0.02	0.15	0.42	0.41	0.005	-0.31	-0.44	-0.04	0.48	6532	-6.1
9	F084	0.2473	0.0210	2.06	0.69	0.05	0.16	0.46	0.33	0.004	-0.42	-0.39	0.07	0.46	6535	-7.8
10	F084	0.3235	0.0216	1.92	0.62	0.05	0.24	0.46	0.26	0.004	-0.40	-0.34	0.14	0.40	6521	-6.1
11	F084	0.3242	0.0214	2.05	0.62	0.03	0.17	0.51	0.29	0.005	-0.34	-0.38	0.09	0.39	6488	-6.9
12	F084	0.2645	0.0212	1.99	0.70	0.09	0.18	0.36	0.36	0.004	-0.49	-0.31	0.07	0.50	6528	-7.1
13	F084	0.3467	0.0211	2.20	0.66	0.02	0.16	0.42	0.40	0.005	-0.26	-0.47	-0.02	0.48	6521	-5.4
14	F084	0.2530	0.0210	2.08	0.66	0.05	0.14	0.48	0.33	0.005	-0.38	-0.37	0.05	0.44	6496	-8.3
15	F084	0.2787	0.0210	1.92	0.61	0.04	0.24	0.45	0.26	0.006	-0.38	-0.32	0.14	0.39	6489	-6.3
16	F084	0.1800	0.0212	2.05	0.60	0.03	0.18	0.50	0.29	0.004	-0.33	-0.39	0.10	0.38	6496	-6.1
17	F084	0.5846	0.0212	2.00	0.71	0.09	0.17	0.36	0.37	0.005	-0.52	-0.29	0.09	0.49	6513	-4.3
18	F084	0.4971	0.0210	2.21	0.66	0.02	0.15	0.42	0.41	0.004	-0.28	-0.47	-0.03	0.49	6507	-6.3
19	F084	0.4684	0.0211	2.09	0.68	0.05	0.14	0.47	0.34	0.004	-0.40	-0.41	0.05	0.46	6541	-6.8
20	F084	0.4367	0.0216	1.91	0.61	0.04	0.24	0.46	0.25	0.005	-0.38	-0.33	0.15	0.38	6497	-5.6

Appendix P:

**2005 Field Test Grade 5 Constructed Response Statistics for
Mathematics**

2005 Field Test Grade 5 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Omitted	Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4		0	1	2	3	4		
1	F075	0.5470	0.0147	1.17	0.35	0.03	0.13	0.14	0.17	0.06	0.001	-0.27	-0.26	0.02	0.26	0.26	7392	9.9
2	F075	0.6120	0.0158	0.79	0.48	0.22	0.16	0.08	0.06	0.07	0.001	-0.31	0.01	0.19	0.23	0.32	6809	9.9
3	F075	0.4606	0.0152	0.62	0.42	0.21	0.13	0.06	0.06	0.05	0.001	-0.31	0.09	0.16	0.22	0.26	6819	9.9
4	F075	0.5042	0.0154	1.05	0.43	0.07	0.14	0.11	0.11	0.09	0.001	-0.32	-0.15	0.10	0.24	0.32	6794	9.9
5	F075	0.4440	0.0153	1.08	0.45	0.11	0.15	0.12	0.12	0.09	0.001	-0.36	-0.08	0.10	0.24	0.31	6775	9.9
6	F075	0.4772	0.0153	0.52	0.37	0.19	0.21	0.05	0.04	0.02	0.001	-0.32	0.17	0.15	0.19	0.17	6795	9.9
7	F075	0.4720	0.0153	0.92	0.43	0.11	0.13	0.09	0.09	0.09	0.001	-0.35	-0.05	0.13	0.21	0.31	6791	9.9
8	F075	0.5449	0.0153	1.32	0.34	0.04	0.04	0.17	0.14	0.13	0.001	-0.21	-0.13	-0.15	0.20	0.33	6820	9.9
9	F075	0.4930	0.0152	1.13	0.38	0.02	0.19	0.08	0.10	0.12	0.001	-0.17	-0.21	0.04	0.18	0.34	6803	9.9
10	F075	0.5948	0.0150	1.51	0.32	0.04	0.04	0.05	0.18	0.21	0.001	-0.24	-0.16	-0.05	0.06	0.32	6802	9.9
11	F075	0.4913	0.0152	1.38	0.37	0.04	0.05	0.08	0.20	0.15	0.001	-0.32	-0.15	-0.03	0.18	0.30	6795	9.9
12	F075	0.6420	0.0151	1.37	0.34	0.03	0.02	0.14	0.20	0.12	0.001	-0.29	-0.12	-0.10	0.19	0.29	6792	9.9
13	F075	0.4415	0.0150	1.20	0.42	0.10	0.06	0.08	0.11	0.17	0.001	-0.33	-0.08	0.02	0.15	0.36	6782	9.7
14	F075	0.4413	0.0150	1.56	0.27	0.01	0.04	0.08	0.18	0.21	0.001	-0.14	-0.17	-0.07	0.05	0.29	6784	8.1
16	F075	0.5461	0.0154	1.04	0.40	0.06	0.14	0.12	0.11	0.08	0.001	-0.26	-0.16	0.09	0.23	0.30	6754	9.9

Appendix Q:

**2005 Field Test Grade 8 Constructed Response Statistics for
Mathematics**

2005 Field Test Grade 8 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Omitted	Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4		0	1	2	3	4		
1	F074	0.6092	0.0134	0.76	0.37	0.14	0.15	0.12	0.05	0.05	0.002	-0.35	-0.03	0.15	0.19	0.25	7953	9.9
2	F074	0.6525	0.0142	1.07	0.53	0.18	0.11	0.07	0.07	0.15	0.001	-0.38	-0.01	0.08	0.16	0.44	7395	9.9
3	F074	0.7629	0.0135	0.92	0.43	0.08	0.14	0.17	0.04	0.08	0.001	-0.32	-0.13	0.19	0.15	0.34	7392	9.9
4	F074	0.6221	0.0141	0.63	0.45	0.19	0.11	0.12	0.05	0.03	0.001	-0.32	0.05	0.24	0.21	0.24	7394	9.9
5	F074	0.6143	0.0142	0.24	0.36	0.36	0.07	0.06	0.01	0.00	0.001	-0.16	0.16	0.25	0.16	0.10	7387	6.5
6	F074	0.6651	0.0141	1.06	0.40	0.07	0.11	0.10	0.15	0.08	0.002	-0.28	-0.11	0.00	0.24	0.32	7388	9.9
7	F074	0.7177	0.0142	1.02	0.43	0.05	0.13	0.12	0.13	0.06	0.001	-0.29	-0.22	0.07	0.29	0.31	7391	9.9
8	F074	0.6841	0.0141	1.09	0.30	0.02	0.02	0.34	0.07	0.05	0.001	-0.18	-0.16	-0.01	0.23	0.27	7394	9.9
9	F074	0.6911	0.0143	1.18	0.42	0.07	0.10	0.05	0.14	0.14	0.001	-0.33	-0.13	-0.00	0.19	0.36	7395	9.9
10	F074	0.6927	0.0144	1.12	0.45	0.09	0.07	0.09	0.17	0.10	0.001	-0.38	-0.15	0.02	0.26	0.34	7377	9.9

Appendix R:

**2005 Field Test Grade 11 Constructed Response Statistics
for Mathematics**

2005 Field Test Grade 11 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Omitted	Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4		0	1	2	3	4		
1	F074	1.3298	0.0141	1.32	0.69	0.28	0.19	0.39	0.08	0.03	0.001	-0.58	-0.13	0.41	0.28	0.25	6942	-9.9
2	F074	1.3372	0.0143	1.61	0.67	0.19	0.31	0.19	0.20	0.08	0.002	-0.47	-0.24	0.14	0.39	0.34	6569	-9.9
3	F074	1.2881	0.0144	1.31	0.67	0.28	0.15	0.08	0.11	0.17	0.002	-0.52	-0.00	0.10	0.30	0.48	6581	-9.9
5	F074	1.3895	0.0147	1.04	0.70	0.53	0.12	0.16	0.11	0.07	0.019	-0.59	-0.04	0.29	0.39	0.37	6542	-9.9
6	F074	1.3912	0.0144	1.75	0.80	0.44	0.05	0.09	0.14	0.27	0.002	-0.75	-0.05	0.09	0.27	0.60	6531	-9.9
7	F074	1.2345	0.0144	1.54	0.78	0.34	0.25	0.06	0.11	0.21	0.001	-0.63	-0.09	0.12	0.29	0.58	6544	-9.9
8	F074	1.2522	0.0142	1.33	0.61	0.16	0.19	0.16	0.10	0.13	0.001	-0.40	-0.18	0.11	0.28	0.45	6544	-9.9
9	F074	1.3960	0.0141	2.22	0.75	0.13	0.23	0.24	0.09	0.31	0.002	-0.48	-0.34	-0.03	0.13	0.61	6560	-9.9
10	F074	1.3000	0.0144	2.55	0.74	0.06	0.19	0.18	0.24	0.33	0.002	-0.33	-0.49	-0.17	0.14	0.60	6552	-9.9
11	F074	1.3230	0.0142	1.29	0.64	0.44	0.14	0.17	0.10	0.13	0.001	-0.58	0.05	0.22	0.23	0.40	6554	-9.9
12	F074	1.2694	0.0143	2.15	0.59	0.24	0.07	0.12	0.14	0.36	0.001	-0.50	-0.10	-0.03	0.09	0.50	6512	-9.9
13	F074	1.2019	0.0139	1.58	0.71	0.29	0.26	0.14	0.14	0.16	0.002	-0.57	-0.05	0.04	0.27	0.51	6542	-9.9
14	F074	1.3787	0.0139	1.44	0.69	0.29	0.30	0.07	0.23	0.08	0.001	-0.57	-0.04	0.09	0.41	0.35	6541	-9.9
15	F074	1.4233	0.0144	1.10	0.69	0.41	0.30	0.08	0.08	0.10	0.002	-0.56	0.03	0.20	0.31	0.44	6518	-9.9
16	F074	1.3194	0.0144	2.45	0.67	0.09	0.15	0.23	0.20	0.31	0.002	-0.41	-0.33	-0.13	0.16	0.51	6519	-9.9
19	F074	1.3454	0.0144	1.31	0.66	0.28	0.16	0.08	0.10	0.17	0.002	-0.52	-0.02	0.10	0.26	0.50	6511	-9.9

Appendix S:

2005 Common Grade 5 Multiple Choice Statistics for Reading

2005 Common Grade 5 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O025	C	-1.827	0.042	0.87	0.58	0.017	0.02	0.02	0.87	0.08	-0.21	-0.22	0.58	-0.32	7273	-4.4
2	O025	C	-1.827	0.048	0.91	0.46	0.003	0.01	0.01	0.91	0.06	-0.17	-0.20	0.46	-0.33	6810	-1.9
3	O025	C	-1.827	0.047	0.91	0.46	0.003	0.01	0.01	0.91	0.06	-0.22	-0.18	0.46	-0.31	6803	-2.4
4	O025	C	-1.827	0.047	0.91	0.48	0.003	0.01	0.01	0.91	0.06	-0.21	-0.20	0.48	-0.33	6785	-4.6
5	O025	C	-1.827	0.048	0.91	0.47	0.003	0.01	0.01	0.91	0.07	-0.22	-0.17	0.47	-0.34	6770	-2.4
6	O025	C	-1.827	0.049	0.92	0.48	0.004	0.01	0.01	0.92	0.06	-0.22	-0.19	0.48	-0.33	6774	-3.6
7	O025	C	-1.827	0.047	0.92	0.47	0.003	0.01	0.01	0.92	0.06	-0.21	-0.19	0.47	-0.33	6783	-5.2
8	O025	C	-1.827	0.048	0.91	0.44	0.002	0.01	0.01	0.91	0.06	-0.21	-0.19	0.44	-0.31	6819	-1.2
9	O025	C	-1.827	0.048	0.92	0.43	0.002	0.01	0.01	0.92	0.05	-0.16	-0.18	0.43	-0.32	6795	-3.7
10	O025	C	-1.827	0.047	0.91	0.47	0.003	0.01	0.01	0.91	0.06	-0.22	-0.19	0.47	-0.33	6790	-4.0
11	O025	C	-1.827	0.047	0.91	0.47	0.002	0.01	0.01	0.91	0.06	-0.21	-0.17	0.47	-0.35	6791	-4.2
12	O025	C	-1.827	0.048	0.91	0.48	0.004	0.01	0.01	0.91	0.06	-0.19	-0.20	0.48	-0.34	6773	-3.6
13	O025	C	-1.827	0.048	0.92	0.46	0.003	0.01	0.01	0.92	0.06	-0.20	-0.16	0.46	-0.34	6771	-3.6
14	O025	C	-1.827	0.048	0.92	0.45	0.004	0.01	0.01	0.92	0.06	-0.18	-0.19	0.45	-0.31	6769	-3.7
15	O025	C	-1.827	0.048	0.92	0.48	0.002	0.01	0.01	0.92	0.06	-0.23	-0.21	0.48	-0.34	6750	-4.7
16	O025	C	-1.827	0.048	0.92	0.48	0.005	0.01	0.01	0.92	0.05	-0.17	-0.20	0.48	-0.33	6758	-6.3
17	O025	C	-1.827	0.050	0.92	0.43	0.002	0.01	0.01	0.92	0.06	-0.22	-0.16	0.43	-0.30	6777	-2.7
18	O025	C	-1.827	0.050	0.91	0.49	0.004	0.01	0.01	0.91	0.06	-0.20	-0.18	0.49	-0.34	6730	-2.4
19	O025	C	-1.827	0.049	0.92	0.46	0.003	0.01	0.01	0.92	0.06	-0.19	-0.18	0.46	-0.34	6734	-3.3
20	O025	C	-1.827	0.049	0.91	0.51	0.004	0.01	0.01	0.91	0.06	-0.24	-0.19	0.51	-0.34	6707	-4.2
1	O026	A	-0.673	0.032	0.76	0.59	0.018	0.76	0.07	0.08	0.07	0.59	-0.26	-0.28	-0.23	7273	-5.1
2	O026	A	-0.673	0.034	0.80	0.53	0.003	0.80	0.07	0.06	0.06	0.53	-0.30	-0.28	-0.24	6810	-4.1
3	O026	A	-0.673	0.034	0.81	0.53	0.003	0.81	0.06	0.06	0.07	0.53	-0.29	-0.30	-0.23	6803	-5.3
4	O026	A	-0.673	0.034	0.80	0.54	0.004	0.80	0.06	0.07	0.06	0.54	-0.29	-0.32	-0.22	6785	-4.3
5	O026	A	-0.673	0.034	0.81	0.53	0.003	0.81	0.06	0.06	0.07	0.53	-0.29	-0.30	-0.24	6770	-5.0
6	O026	A	-0.673	0.035	0.80	0.52	0.004	0.80	0.06	0.06	0.07	0.52	-0.28	-0.27	-0.24	6774	-1.4
7	O026	A	-0.673	0.034	0.81	0.52	0.003	0.81	0.06	0.06	0.06	0.52	-0.28	-0.30	-0.23	6783	-5.7
8	O026	A	-0.673	0.034	0.80	0.53	0.002	0.80	0.07	0.06	0.07	0.53	-0.28	-0.30	-0.24	6819	-3.4
9	O026	A	-0.673	0.034	0.81	0.51	0.003	0.81	0.06	0.06	0.07	0.51	-0.28	-0.28	-0.24	6795	-3.2
10	O026	A	-0.673	0.034	0.80	0.53	0.003	0.80	0.07	0.06	0.07	0.53	-0.27	-0.29	-0.24	6790	-3.3
11	O026	A	-0.673	0.034	0.80	0.53	0.002	0.80	0.06	0.06	0.07	0.53	-0.30	-0.31	-0.23	6791	-3.4
12	O026	A	-0.673	0.034	0.81	0.53	0.004	0.81	0.06	0.06	0.06	0.53	-0.29	-0.30	-0.20	6773	-3.8
13	O026	A	-0.673	0.035	0.82	0.53	0.003	0.82	0.06	0.06	0.06	0.53	-0.30	-0.28	-0.23	6771	-5.4
14	O026	A	-0.673	0.034	0.81	0.52	0.004	0.81	0.06	0.06	0.07	0.52	-0.28	-0.28	-0.24	6769	-4.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O026	A	-0.673	0.035	0.81	0.52	0.003	0.81	0.06	0.07	0.06	0.52	-0.30	-0.30	-0.21	6750	-3.5
16	O026	A	-0.673	0.034	0.81	0.53	0.005	0.81	0.06	0.06	0.06	0.53	-0.28	-0.29	-0.21	6758	-3.9
17	O026	A	-0.673	0.035	0.81	0.52	0.003	0.81	0.06	0.06	0.07	0.52	-0.26	-0.30	-0.26	6777	-1.8
18	O026	A	-0.673	0.035	0.81	0.53	0.005	0.81	0.06	0.06	0.07	0.53	-0.28	-0.30	-0.21	6730	-0.5
19	O026	A	-0.673	0.035	0.81	0.51	0.003	0.81	0.07	0.06	0.06	0.51	-0.28	-0.29	-0.22	6734	-4.3
20	O026	A	-0.673	0.035	0.81	0.52	0.004	0.81	0.06	0.06	0.07	0.52	-0.26	-0.27	-0.25	6707	-1.1
1	O027	C	0.246	0.028	0.65	0.49	0.018	0.02	0.21	0.65	0.11	-0.22	-0.23	0.49	-0.18	7273	-0.2
2	O027	C	0.246	0.029	0.68	0.45	0.003	0.02	0.20	0.68	0.11	-0.24	-0.25	0.45	-0.24	6810	0.5
3	O027	C	0.246	0.029	0.67	0.47	0.003	0.02	0.20	0.67	0.11	-0.26	-0.27	0.47	-0.22	6803	-1.1
4	O027	C	0.246	0.029	0.68	0.44	0.004	0.01	0.20	0.68	0.10	-0.21	-0.26	0.44	-0.22	6785	1.0
5	O027	C	0.246	0.029	0.68	0.46	0.003	0.01	0.20	0.68	0.11	-0.24	-0.27	0.46	-0.23	6770	-0.5
6	O027	C	0.246	0.029	0.68	0.45	0.004	0.02	0.20	0.68	0.10	-0.24	-0.26	0.45	-0.20	6774	1.4
7	O027	C	0.246	0.029	0.67	0.44	0.004	0.01	0.20	0.67	0.11	-0.23	-0.24	0.44	-0.24	6783	-0.5
8	O027	C	0.246	0.029	0.69	0.44	0.002	0.01	0.19	0.69	0.11	-0.20	-0.26	0.44	-0.24	6819	-1.6
9	O027	C	0.246	0.029	0.68	0.43	0.003	0.01	0.20	0.68	0.10	-0.23	-0.24	0.43	-0.23	6795	1.2
10	O027	C	0.246	0.029	0.67	0.46	0.003	0.02	0.20	0.67	0.11	-0.23	-0.28	0.46	-0.21	6790	-0.1
11	O027	C	0.246	0.029	0.69	0.46	0.003	0.02	0.19	0.69	0.11	-0.24	-0.27	0.46	-0.23	6791	-1.4
12	O027	C	0.246	0.029	0.68	0.45	0.005	0.01	0.19	0.68	0.11	-0.21	-0.25	0.45	-0.23	6773	0.8
13	O027	C	0.246	0.029	0.68	0.44	0.003	0.02	0.19	0.68	0.10	-0.25	-0.24	0.44	-0.23	6771	0.1
14	O027	C	0.246	0.029	0.68	0.45	0.004	0.02	0.20	0.68	0.10	-0.24	-0.25	0.45	-0.23	6769	0.7
15	O027	C	0.246	0.029	0.69	0.45	0.003	0.01	0.19	0.69	0.10	-0.23	-0.25	0.45	-0.25	6750	-0.1
16	O027	C	0.246	0.029	0.70	0.46	0.005	0.02	0.18	0.70	0.10	-0.25	-0.25	0.46	-0.22	6758	-2.1
17	O027	C	0.246	0.030	0.68	0.45	0.003	0.01	0.20	0.68	0.11	-0.20	-0.27	0.45	-0.23	6777	3.3
18	O027	C	0.246	0.030	0.69	0.45	0.005	0.01	0.19	0.69	0.11	-0.23	-0.24	0.45	-0.22	6730	1.4
19	O027	C	0.246	0.029	0.68	0.44	0.003	0.01	0.20	0.68	0.11	-0.24	-0.24	0.44	-0.23	6734	1.4
20	O027	C	0.246	0.030	0.68	0.43	0.004	0.01	0.19	0.68	0.11	-0.26	-0.22	0.43	-0.22	6707	3.2
1	O028	C	0.271	0.028	0.65	0.48	0.018	0.10	0.10	0.65	0.14	-0.28	-0.17	0.48	-0.13	7273	1.1
2	O028	C	0.271	0.029	0.68	0.43	0.003	0.08	0.10	0.68	0.14	-0.29	-0.19	0.43	-0.16	6810	2.0
3	O028	C	0.271	0.029	0.67	0.45	0.004	0.08	0.10	0.67	0.15	-0.28	-0.19	0.45	-0.18	6803	0.6
4	O028	C	0.271	0.029	0.69	0.43	0.004	0.08	0.08	0.69	0.14	-0.30	-0.18	0.43	-0.17	6785	0.5
5	O028	C	0.271	0.029	0.69	0.43	0.003	0.08	0.09	0.69	0.13	-0.28	-0.18	0.43	-0.18	6770	1.0
6	O028	C	0.271	0.029	0.68	0.42	0.005	0.08	0.09	0.68	0.14	-0.28	-0.18	0.42	-0.15	6774	3.5
7	O028	C	0.271	0.029	0.67	0.44	0.004	0.09	0.09	0.67	0.14	-0.29	-0.18	0.44	-0.17	6783	-0.0
8	O028	C	0.271	0.029	0.68	0.44	0.003	0.09	0.10	0.68	0.14	-0.29	-0.19	0.44	-0.18	6819	-0.2
9	O028	C	0.271	0.029	0.68	0.44	0.003	0.09	0.09	0.68	0.14	-0.30	-0.19	0.44	-0.17	6795	-0.2
10	O028	C	0.271	0.029	0.68	0.45	0.003	0.08	0.09	0.68	0.15	-0.31	-0.18	0.45	-0.17	6790	-0.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O028	C	0.271	0.029	0.68	0.44	0.003	0.08	0.09	0.68	0.14	-0.30	-0.18	0.44	-0.18	6791	0.0
12	O028	C	0.271	0.029	0.69	0.43	0.005	0.08	0.09	0.69	0.14	-0.27	-0.18	0.43	-0.17	6773	1.9
13	O028	C	0.271	0.029	0.67	0.44	0.004	0.09	0.09	0.67	0.14	-0.29	-0.18	0.44	-0.17	6771	1.9
14	O028	C	0.271	0.029	0.69	0.43	0.004	0.08	0.08	0.69	0.14	-0.30	-0.17	0.43	-0.18	6769	0.9
15	O028	C	0.271	0.029	0.68	0.42	0.003	0.09	0.09	0.68	0.14	-0.28	-0.18	0.42	-0.17	6750	2.9
16	O028	C	0.271	0.029	0.69	0.44	0.006	0.08	0.09	0.69	0.14	-0.28	-0.19	0.44	-0.17	6758	-0.8
17	O028	C	0.271	0.029	0.68	0.43	0.003	0.09	0.09	0.68	0.14	-0.27	-0.20	0.43	-0.17	6777	4.0
18	O028	C	0.271	0.030	0.69	0.45	0.006	0.08	0.09	0.69	0.14	-0.30	-0.17	0.45	-0.17	6730	3.6
19	O028	C	0.271	0.029	0.69	0.43	0.003	0.08	0.09	0.69	0.14	-0.28	-0.20	0.43	-0.16	6734	1.1
20	O028	C	0.271	0.030	0.68	0.43	0.005	0.08	0.09	0.68	0.14	-0.27	-0.18	0.43	-0.17	6707	3.3
1	O029	A	0.514	0.027	0.60	0.40	0.017	0.60	0.16	0.08	0.14	0.40	-0.15	-0.17	-0.11	7273	9.7
2	O029	A	0.514	0.028	0.63	0.34	0.004	0.63	0.15	0.07	0.14	0.34	-0.17	-0.17	-0.14	6810	9.0
3	O029	A	0.514	0.028	0.63	0.35	0.004	0.63	0.15	0.08	0.14	0.35	-0.18	-0.19	-0.13	6803	7.7
4	O029	A	0.514	0.028	0.64	0.33	0.004	0.64	0.14	0.07	0.14	0.33	-0.16	-0.16	-0.14	6785	8.8
5	O029	A	0.514	0.028	0.64	0.32	0.003	0.64	0.15	0.07	0.13	0.32	-0.17	-0.17	-0.11	6770	9.9
6	O029	A	0.514	0.028	0.63	0.35	0.005	0.63	0.15	0.07	0.14	0.35	-0.18	-0.16	-0.14	6774	9.1
7	O029	A	0.514	0.028	0.62	0.34	0.004	0.62	0.16	0.07	0.14	0.34	-0.17	-0.16	-0.14	6783	7.7
8	O029	A	0.514	0.028	0.64	0.32	0.003	0.64	0.15	0.07	0.14	0.32	-0.16	-0.16	-0.14	6819	9.0
9	O029	A	0.514	0.028	0.65	0.34	0.003	0.65	0.15	0.07	0.13	0.34	-0.18	-0.18	-0.13	6795	7.6
10	O029	A	0.514	0.028	0.64	0.34	0.003	0.64	0.15	0.07	0.14	0.34	-0.18	-0.17	-0.13	6790	9.2
11	O029	A	0.514	0.028	0.63	0.33	0.004	0.63	0.16	0.07	0.14	0.33	-0.17	-0.15	-0.14	6791	9.2
12	O029	A	0.514	0.028	0.63	0.35	0.005	0.63	0.16	0.07	0.14	0.35	-0.18	-0.17	-0.14	6773	9.0
13	O029	A	0.514	0.028	0.62	0.34	0.004	0.62	0.15	0.08	0.14	0.34	-0.15	-0.19	-0.14	6771	9.9
14	O029	A	0.514	0.028	0.64	0.33	0.005	0.64	0.15	0.07	0.14	0.33	-0.15	-0.17	-0.15	6769	9.9
15	O029	A	0.514	0.028	0.65	0.33	0.003	0.65	0.15	0.07	0.13	0.33	-0.18	-0.18	-0.12	6750	9.2
16	O029	A	0.514	0.028	0.64	0.36	0.006	0.64	0.15	0.07	0.13	0.36	-0.18	-0.16	-0.16	6758	5.4
17	O029	A	0.514	0.029	0.63	0.34	0.003	0.63	0.16	0.07	0.14	0.34	-0.18	-0.16	-0.14	6777	9.9
18	O029	A	0.514	0.029	0.63	0.33	0.005	0.63	0.15	0.08	0.14	0.33	-0.16	-0.17	-0.11	6730	9.9
19	O029	A	0.514	0.028	0.62	0.33	0.003	0.62	0.16	0.07	0.15	0.33	-0.17	-0.15	-0.15	6734	9.1
20	O029	A	0.514	0.029	0.65	0.33	0.004	0.65	0.15	0.07	0.13	0.33	-0.16	-0.19	-0.12	6707	9.9
1	O030	B	-1.255	0.036	0.83	0.52	0.018	0.05	0.83	0.04	0.06	-0.27	0.52	-0.21	-0.19	7273	1.3
2	O030	B	-1.255	0.040	0.87	0.44	0.004	0.04	0.87	0.04	0.05	-0.27	0.44	-0.22	-0.20	6810	0.4
3	O030	B	-1.255	0.040	0.87	0.44	0.005	0.04	0.87	0.04	0.05	-0.27	0.44	-0.23	-0.18	6803	-0.3
4	O030	B	-1.255	0.040	0.88	0.42	0.005	0.04	0.88	0.03	0.05	-0.27	0.42	-0.18	-0.21	6785	0.4
5	O030	B	-1.255	0.040	0.87	0.45	0.003	0.04	0.87	0.04	0.05	-0.28	0.45	-0.23	-0.22	6770	-0.7
6	O030	B	-1.255	0.041	0.87	0.42	0.006	0.04	0.87	0.03	0.05	-0.25	0.42	-0.17	-0.21	6774	3.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O030	B	-1.255	0.040	0.87	0.43	0.004	0.04	0.87	0.04	0.05	-0.26	0.43	-0.23	-0.19	6783	-0.9
8	O030	B	-1.255	0.040	0.88	0.42	0.003	0.04	0.88	0.03	0.05	-0.27	0.42	-0.20	-0.21	6819	0.5
9	O030	B	-1.255	0.040	0.87	0.43	0.004	0.04	0.87	0.04	0.05	-0.26	0.43	-0.20	-0.21	6795	0.5
10	O030	B	-1.255	0.040	0.87	0.46	0.003	0.04	0.87	0.04	0.05	-0.27	0.46	-0.24	-0.22	6790	-1.5
11	O030	B	-1.255	0.040	0.87	0.44	0.004	0.04	0.87	0.04	0.05	-0.27	0.44	-0.24	-0.20	6791	0.0
12	O030	B	-1.255	0.040	0.87	0.43	0.005	0.04	0.87	0.03	0.05	-0.25	0.43	-0.21	-0.19	6773	1.5
13	O030	B	-1.255	0.040	0.87	0.41	0.004	0.04	0.87	0.04	0.05	-0.25	0.41	-0.20	-0.20	6771	1.2
14	O030	B	-1.255	0.040	0.88	0.43	0.005	0.04	0.88	0.04	0.05	-0.25	0.43	-0.21	-0.20	6769	0.6
15	O030	B	-1.255	0.041	0.88	0.43	0.003	0.04	0.88	0.04	0.05	-0.29	0.43	-0.20	-0.21	6750	-0.3
16	O030	B	-1.255	0.040	0.88	0.45	0.005	0.03	0.88	0.03	0.05	-0.26	0.45	-0.22	-0.22	6758	-0.5
17	O030	B	-1.255	0.041	0.88	0.41	0.004	0.03	0.88	0.04	0.05	-0.25	0.41	-0.21	-0.19	6777	1.9
18	O030	B	-1.255	0.041	0.88	0.44	0.005	0.04	0.88	0.04	0.05	-0.28	0.44	-0.19	-0.19	6730	1.4
19	O030	B	-1.255	0.041	0.88	0.42	0.004	0.03	0.88	0.04	0.05	-0.26	0.42	-0.22	-0.20	6734	-1.2
20	O030	B	-1.255	0.041	0.87	0.42	0.005	0.03	0.87	0.04	0.06	-0.23	0.42	-0.20	-0.19	6707	3.5
1	O031	B	-2.033	0.045	0.90	0.55	0.019	0.02	0.90	0.05	0.02	-0.22	0.55	-0.26	-0.23	7273	-3.5
2	O031	B	-2.033	0.051	0.93	0.42	0.005	0.01	0.93	0.04	0.01	-0.19	0.42	-0.26	-0.24	6810	-2.8
3	O031	B	-2.033	0.051	0.93	0.44	0.006	0.01	0.93	0.04	0.01	-0.19	0.44	-0.26	-0.24	6803	-1.3
4	O031	B	-2.033	0.051	0.93	0.42	0.005	0.01	0.93	0.04	0.01	-0.21	0.42	-0.26	-0.20	6785	-3.0
5	O031	B	-2.033	0.051	0.93	0.45	0.004	0.02	0.93	0.04	0.01	-0.22	0.45	-0.27	-0.24	6770	-3.0
6	O031	B	-2.033	0.053	0.92	0.46	0.005	0.02	0.92	0.04	0.01	-0.27	0.46	-0.23	-0.22	6774	-1.5
7	O031	B	-2.033	0.051	0.93	0.40	0.005	0.02	0.93	0.04	0.01	-0.21	0.40	-0.23	-0.21	6783	-0.9
8	O031	B	-2.033	0.051	0.93	0.40	0.005	0.02	0.93	0.04	0.01	-0.20	0.40	-0.25	-0.21	6819	-2.1
9	O031	B	-2.033	0.051	0.94	0.40	0.005	0.01	0.94	0.04	0.01	-0.18	0.40	-0.25	-0.21	6795	-3.2
10	O031	B	-2.033	0.050	0.93	0.42	0.004	0.02	0.93	0.04	0.01	-0.21	0.42	-0.26	-0.20	6790	-3.4
11	O031	B	-2.033	0.051	0.93	0.40	0.005	0.01	0.93	0.04	0.01	-0.19	0.40	-0.25	-0.21	6791	-3.8
12	O031	B	-2.033	0.051	0.93	0.44	0.006	0.01	0.93	0.04	0.01	-0.20	0.44	-0.25	-0.23	6773	-4.4
13	O031	B	-2.033	0.052	0.93	0.42	0.005	0.01	0.93	0.04	0.01	-0.20	0.42	-0.27	-0.19	6771	-0.9
14	O031	B	-2.033	0.051	0.93	0.43	0.006	0.01	0.93	0.04	0.01	-0.20	0.43	-0.28	-0.20	6769	-2.9
15	O031	B	-2.033	0.052	0.93	0.42	0.004	0.01	0.93	0.04	0.01	-0.22	0.42	-0.25	-0.23	6750	-1.7
16	O031	B	-2.033	0.052	0.93	0.45	0.006	0.02	0.93	0.04	0.01	-0.22	0.45	-0.25	-0.22	6758	-3.9
17	O031	B	-2.033	0.054	0.93	0.40	0.004	0.01	0.93	0.04	0.01	-0.21	0.40	-0.25	-0.20	6777	-1.3
18	O031	B	-2.033	0.054	0.93	0.44	0.006	0.01	0.93	0.04	0.01	-0.22	0.44	-0.26	-0.20	6730	-1.2
19	O031	B	-2.033	0.053	0.93	0.41	0.004	0.01	0.93	0.04	0.01	-0.21	0.41	-0.23	-0.24	6734	-0.8
20	O031	B	-2.033	0.053	0.92	0.45	0.006	0.01	0.92	0.04	0.01	-0.21	0.45	-0.27	-0.23	6707	-0.1
1	O033	D	-0.771	0.032	0.79	0.57	0.019	0.13	0.03	0.03	0.79	-0.29	-0.26	-0.22	0.57	7273	-7.2
2	O033	D	-0.771	0.035	0.82	0.54	0.004	0.13	0.03	0.02	0.82	-0.36	-0.25	-0.23	0.54	6810	-5.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O033	D	-0.771	0.035	0.82	0.51	0.005	0.13	0.03	0.02	0.82	-0.35	-0.24	-0.20	0.51	6803	-5.1
4	O033	D	-0.771	0.035	0.83	0.52	0.005	0.12	0.03	0.02	0.83	-0.33	-0.26	-0.24	0.52	6785	-5.8
5	O033	D	-0.771	0.035	0.82	0.54	0.004	0.13	0.03	0.02	0.82	-0.35	-0.27	-0.23	0.54	6770	-6.8
6	O033	D	-0.771	0.036	0.81	0.54	0.005	0.13	0.03	0.02	0.81	-0.36	-0.26	-0.22	0.54	6774	-4.5
7	O033	D	-0.771	0.035	0.82	0.52	0.005	0.12	0.03	0.02	0.82	-0.35	-0.25	-0.21	0.52	6783	-7.0
8	O033	D	-0.771	0.035	0.82	0.51	0.003	0.12	0.03	0.03	0.82	-0.34	-0.24	-0.23	0.51	6819	-6.2
9	O033	D	-0.771	0.035	0.82	0.52	0.003	0.12	0.03	0.02	0.82	-0.36	-0.23	-0.22	0.52	6795	-6.7
10	O033	D	-0.771	0.035	0.81	0.54	0.004	0.13	0.03	0.02	0.81	-0.37	-0.25	-0.22	0.54	6790	-5.3
11	O033	D	-0.771	0.035	0.82	0.53	0.003	0.13	0.03	0.02	0.82	-0.37	-0.25	-0.21	0.53	6791	-6.1
12	O033	D	-0.771	0.035	0.82	0.54	0.005	0.13	0.03	0.03	0.82	-0.35	-0.26	-0.23	0.54	6773	-4.8
13	O033	D	-0.771	0.035	0.82	0.52	0.005	0.13	0.02	0.02	0.82	-0.36	-0.25	-0.19	0.52	6771	-4.5
14	O033	D	-0.771	0.035	0.83	0.53	0.004	0.12	0.03	0.02	0.83	-0.34	-0.27	-0.22	0.53	6769	-6.0
15	O033	D	-0.771	0.036	0.83	0.51	0.003	0.12	0.03	0.02	0.83	-0.33	-0.27	-0.21	0.51	6750	-4.4
16	O033	D	-0.771	0.035	0.83	0.52	0.005	0.11	0.03	0.03	0.83	-0.33	-0.23	-0.24	0.52	6758	-7.3
17	O033	D	-0.771	0.036	0.82	0.51	0.004	0.12	0.03	0.02	0.82	-0.35	-0.25	-0.20	0.51	6777	-3.9
18	O033	D	-0.771	0.036	0.82	0.51	0.006	0.13	0.03	0.02	0.82	-0.32	-0.24	-0.21	0.51	6730	-2.4
19	O033	D	-0.771	0.036	0.83	0.50	0.004	0.12	0.03	0.02	0.83	-0.32	-0.27	-0.21	0.50	6734	-4.9
20	O033	D	-0.771	0.036	0.83	0.52	0.005	0.11	0.03	0.02	0.83	-0.33	-0.26	-0.21	0.52	6707	-4.1
1	O034	B	0.398	0.027	0.62	0.50	0.019	0.17	0.62	0.06	0.14	-0.19	0.50	-0.26	-0.16	7273	-0.9
2	O034	B	0.398	0.028	0.64	0.46	0.004	0.16	0.64	0.05	0.14	-0.21	0.46	-0.26	-0.22	6810	-0.8
3	O034	B	0.398	0.028	0.64	0.44	0.004	0.17	0.64	0.05	0.13	-0.20	0.44	-0.25	-0.19	6803	0.5
4	O034	B	0.398	0.028	0.65	0.44	0.005	0.17	0.65	0.05	0.13	-0.22	0.44	-0.26	-0.17	6785	0.9
5	O034	B	0.398	0.028	0.65	0.45	0.004	0.17	0.65	0.05	0.13	-0.22	0.45	-0.24	-0.21	6770	-0.1
6	O034	B	0.398	0.029	0.65	0.45	0.005	0.17	0.65	0.05	0.13	-0.19	0.45	-0.26	-0.20	6774	1.3
7	O034	B	0.398	0.028	0.65	0.47	0.006	0.16	0.65	0.05	0.13	-0.22	0.47	-0.28	-0.20	6783	-3.5
8	O034	B	0.398	0.028	0.65	0.46	0.003	0.17	0.65	0.05	0.13	-0.23	0.46	-0.25	-0.21	6819	-1.5
9	O034	B	0.398	0.028	0.65	0.45	0.003	0.17	0.65	0.05	0.13	-0.21	0.45	-0.27	-0.19	6795	-0.7
10	O034	B	0.398	0.028	0.64	0.44	0.004	0.17	0.64	0.05	0.13	-0.20	0.44	-0.25	-0.21	6790	1.0
11	O034	B	0.398	0.028	0.64	0.46	0.003	0.17	0.64	0.06	0.13	-0.22	0.46	-0.27	-0.20	6791	-0.8
12	O034	B	0.398	0.029	0.65	0.47	0.005	0.16	0.65	0.05	0.13	-0.21	0.47	-0.27	-0.21	6773	-0.9
13	O034	B	0.398	0.029	0.65	0.44	0.005	0.17	0.65	0.04	0.13	-0.22	0.44	-0.25	-0.18	6771	0.2
14	O034	B	0.398	0.029	0.66	0.45	0.004	0.17	0.66	0.05	0.12	-0.24	0.45	-0.23	-0.19	6769	0.4
15	O034	B	0.398	0.029	0.65	0.44	0.004	0.17	0.65	0.05	0.13	-0.21	0.44	-0.26	-0.20	6750	0.7
16	O034	B	0.398	0.028	0.67	0.46	0.006	0.16	0.67	0.05	0.13	-0.21	0.46	-0.26	-0.20	6758	-3.2
17	O034	B	0.398	0.029	0.65	0.47	0.004	0.17	0.65	0.05	0.13	-0.24	0.47	-0.27	-0.20	6777	-0.1
18	O034	B	0.398	0.029	0.65	0.46	0.006	0.16	0.65	0.05	0.13	-0.21	0.46	-0.23	-0.20	6730	0.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O034	B	0.398	0.029	0.64	0.46	0.004	0.17	0.64	0.05	0.13	-0.24	0.46	-0.26	-0.19	6734	-1.0
20	O034	B	0.398	0.029	0.65	0.45	0.005	0.17	0.65	0.05	0.12	-0.22	0.45	-0.26	-0.18	6707	1.2
1	O035	B	-0.910	0.033	0.80	0.58	0.019	0.04	0.80	0.05	0.09	-0.24	0.58	-0.27	-0.24	7273	-7.8
2	O035	B	-0.910	0.036	0.84	0.51	0.005	0.04	0.84	0.04	0.07	-0.29	0.51	-0.28	-0.24	6810	-6.6
3	O035	B	-0.910	0.036	0.84	0.51	0.005	0.04	0.84	0.04	0.08	-0.27	0.51	-0.26	-0.27	6803	-6.6
4	O035	B	-0.910	0.036	0.84	0.53	0.005	0.04	0.84	0.04	0.08	-0.29	0.53	-0.27	-0.28	6785	-7.0
5	O035	B	-0.910	0.036	0.84	0.52	0.004	0.04	0.84	0.04	0.08	-0.29	0.52	-0.27	-0.26	6770	-6.9
6	O035	B	-0.910	0.037	0.84	0.53	0.005	0.04	0.84	0.04	0.07	-0.27	0.53	-0.28	-0.26	6774	-6.1
7	O035	B	-0.910	0.036	0.83	0.51	0.006	0.04	0.83	0.04	0.08	-0.25	0.51	-0.26	-0.28	6783	-5.2
8	O035	B	-0.910	0.036	0.84	0.52	0.004	0.04	0.84	0.04	0.08	-0.26	0.52	-0.30	-0.28	6819	-6.9
9	O035	B	-0.910	0.036	0.84	0.53	0.004	0.03	0.84	0.04	0.08	-0.26	0.53	-0.30	-0.27	6795	-6.9
10	O035	B	-0.910	0.036	0.84	0.52	0.005	0.03	0.84	0.04	0.08	-0.28	0.52	-0.27	-0.27	6790	-7.2
11	O035	B	-0.910	0.036	0.84	0.51	0.004	0.04	0.84	0.04	0.08	-0.26	0.51	-0.26	-0.28	6791	-5.1
12	O035	B	-0.910	0.036	0.84	0.52	0.005	0.04	0.84	0.04	0.08	-0.27	0.52	-0.28	-0.27	6773	-5.4
13	O035	B	-0.910	0.037	0.83	0.52	0.005	0.04	0.83	0.04	0.08	-0.25	0.52	-0.29	-0.27	6771	-5.1
14	O035	B	-0.910	0.036	0.84	0.51	0.004	0.04	0.84	0.04	0.08	-0.25	0.51	-0.27	-0.26	6769	-5.2
15	O035	B	-0.910	0.037	0.84	0.54	0.003	0.04	0.84	0.04	0.08	-0.31	0.54	-0.30	-0.26	6750	-6.4
16	O035	B	-0.910	0.036	0.85	0.53	0.005	0.03	0.85	0.04	0.07	-0.26	0.53	-0.28	-0.27	6758	-7.6
17	O035	B	-0.910	0.037	0.84	0.51	0.004	0.04	0.84	0.04	0.08	-0.28	0.51	-0.26	-0.28	6777	-3.7
18	O035	B	-0.910	0.038	0.85	0.51	0.007	0.04	0.85	0.04	0.07	-0.27	0.51	-0.28	-0.23	6730	-3.8
19	O035	B	-0.910	0.037	0.84	0.50	0.004	0.04	0.84	0.04	0.08	-0.27	0.50	-0.28	-0.26	6734	-5.5
20	O035	B	-0.910	0.037	0.84	0.54	0.005	0.04	0.84	0.04	0.08	-0.31	0.54	-0.28	-0.25	6707	-4.7
1	O036	A	0.306	0.028	0.61	0.57	0.020	0.61	0.13	0.08	0.16	0.57	-0.29	-0.22	-0.19	7273	-7.6
2	O036	A	0.306	0.029	0.66	0.55	0.004	0.66	0.12	0.07	0.14	0.55	-0.31	-0.28	-0.22	6810	-7.9
3	O036	A	0.306	0.029	0.65	0.57	0.005	0.65	0.12	0.07	0.15	0.57	-0.31	-0.28	-0.23	6803	-7.7
4	O036	A	0.306	0.029	0.66	0.55	0.006	0.66	0.11	0.07	0.15	0.55	-0.32	-0.26	-0.22	6785	-7.1
5	O036	A	0.306	0.029	0.65	0.55	0.004	0.65	0.12	0.07	0.15	0.55	-0.31	-0.27	-0.22	6770	-7.1
6	O036	A	0.306	0.029	0.66	0.55	0.005	0.66	0.12	0.06	0.15	0.55	-0.30	-0.26	-0.24	6774	-6.5
7	O036	A	0.306	0.028	0.65	0.56	0.006	0.65	0.13	0.07	0.15	0.56	-0.33	-0.28	-0.21	6783	-8.4
8	O036	A	0.306	0.028	0.65	0.54	0.004	0.65	0.12	0.08	0.15	0.54	-0.30	-0.27	-0.22	6819	-6.5
9	O036	A	0.306	0.029	0.66	0.55	0.004	0.66	0.13	0.07	0.14	0.55	-0.32	-0.23	-0.24	6795	-7.6
10	O036	A	0.306	0.029	0.65	0.56	0.005	0.65	0.12	0.07	0.15	0.56	-0.30	-0.28	-0.24	6790	-8.2
11	O036	A	0.306	0.029	0.65	0.57	0.004	0.65	0.12	0.08	0.15	0.57	-0.32	-0.29	-0.23	6791	-8.2
12	O036	A	0.306	0.029	0.65	0.57	0.006	0.65	0.12	0.07	0.15	0.57	-0.31	-0.29	-0.23	6773	-8.0
13	O036	A	0.306	0.029	0.66	0.56	0.005	0.66	0.12	0.08	0.14	0.56	-0.33	-0.25	-0.23	6771	-7.4
14	O036	A	0.306	0.029	0.66	0.57	0.004	0.66	0.12	0.07	0.15	0.57	-0.32	-0.27	-0.23	6769	-7.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O036	A	0.306	0.029	0.66	0.54	0.003	0.66	0.12	0.07	0.16	0.54	-0.32	-0.26	-0.23	6750	-6.4
16	O036	A	0.306	0.029	0.67	0.56	0.006	0.67	0.11	0.07	0.15	0.56	-0.31	-0.27	-0.23	6758	-9.3
17	O036	A	0.306	0.029	0.65	0.55	0.005	0.65	0.12	0.07	0.15	0.55	-0.31	-0.26	-0.24	6777	-4.9
18	O036	A	0.306	0.029	0.66	0.55	0.007	0.66	0.12	0.07	0.15	0.55	-0.30	-0.26	-0.21	6730	-4.4
19	O036	A	0.306	0.029	0.66	0.55	0.005	0.66	0.12	0.07	0.15	0.55	-0.33	-0.27	-0.21	6734	-7.0
20	O036	A	0.306	0.029	0.66	0.55	0.006	0.66	0.11	0.07	0.15	0.55	-0.30	-0.26	-0.22	6707	-6.0
1	O037	B	-0.671	0.032	0.76	0.61	0.019	0.08	0.76	0.07	0.07	-0.23	0.61	-0.28	-0.28	7273	-7.4
2	O037	B	-0.671	0.034	0.80	0.57	0.004	0.07	0.80	0.06	0.06	-0.29	0.57	-0.30	-0.29	6810	-7.7
3	O037	B	-0.671	0.034	0.81	0.57	0.005	0.07	0.81	0.06	0.06	-0.27	0.57	-0.29	-0.32	6803	-8.7
4	O037	B	-0.671	0.034	0.80	0.57	0.006	0.08	0.80	0.06	0.06	-0.28	0.57	-0.28	-0.31	6785	-7.7
5	O037	B	-0.671	0.034	0.80	0.58	0.004	0.08	0.80	0.06	0.06	-0.27	0.58	-0.32	-0.32	6770	-7.9
6	O037	B	-0.671	0.035	0.80	0.58	0.005	0.08	0.80	0.06	0.06	-0.28	0.58	-0.29	-0.31	6774	-6.0
7	O037	B	-0.671	0.034	0.80	0.59	0.006	0.07	0.80	0.06	0.06	-0.29	0.59	-0.29	-0.31	6783	-9.5
8	O037	B	-0.671	0.034	0.81	0.57	0.003	0.07	0.81	0.06	0.06	-0.28	0.57	-0.27	-0.34	6819	-8.5
9	O037	B	-0.671	0.034	0.81	0.57	0.004	0.08	0.81	0.06	0.06	-0.29	0.57	-0.31	-0.29	6795	-8.9
10	O037	B	-0.671	0.034	0.80	0.58	0.004	0.08	0.80	0.06	0.06	-0.29	0.58	-0.31	-0.30	6790	-7.4
11	O037	B	-0.671	0.034	0.80	0.58	0.004	0.07	0.80	0.06	0.07	-0.28	0.58	-0.29	-0.33	6791	-8.7
12	O037	B	-0.671	0.034	0.81	0.57	0.006	0.08	0.81	0.05	0.06	-0.28	0.57	-0.26	-0.33	6773	-8.0
13	O037	B	-0.671	0.034	0.81	0.57	0.005	0.07	0.81	0.05	0.06	-0.27	0.57	-0.28	-0.33	6771	-8.0
14	O037	B	-0.671	0.034	0.81	0.58	0.005	0.07	0.81	0.06	0.06	-0.26	0.58	-0.32	-0.30	6769	-9.2
15	O037	B	-0.671	0.035	0.81	0.58	0.004	0.07	0.81	0.06	0.06	-0.28	0.58	-0.32	-0.30	6750	-8.4
16	O037	B	-0.671	0.034	0.82	0.55	0.006	0.07	0.82	0.05	0.06	-0.25	0.55	-0.27	-0.31	6758	-8.7
17	O037	B	-0.671	0.035	0.80	0.56	0.004	0.07	0.80	0.06	0.07	-0.28	0.56	-0.27	-0.31	6777	-3.8
18	O037	B	-0.671	0.035	0.80	0.57	0.006	0.07	0.80	0.06	0.06	-0.27	0.57	-0.28	-0.31	6730	-5.7
19	O037	B	-0.671	0.035	0.80	0.57	0.004	0.08	0.80	0.06	0.06	-0.28	0.57	-0.30	-0.30	6734	-5.6
20	O037	B	-0.671	0.035	0.81	0.57	0.005	0.07	0.81	0.05	0.06	-0.28	0.57	-0.30	-0.29	6707	-6.5
1	O038	C	1.596	0.027	0.41	0.28	0.020	0.07	0.19	0.41	0.31	-0.26	-0.11	0.28	0.07	7273	9.9
2	O038	C	1.596	0.027	0.43	0.26	0.005	0.06	0.18	0.43	0.32	-0.32	-0.16	0.26	0.04	6810	9.9
3	O038	C	1.596	0.027	0.43	0.25	0.005	0.06	0.18	0.43	0.33	-0.29	-0.16	0.25	0.05	6803	9.9
4	O038	C	1.596	0.027	0.44	0.27	0.005	0.06	0.18	0.44	0.31	-0.32	-0.16	0.27	0.04	6785	9.9
5	O038	C	1.596	0.027	0.43	0.26	0.004	0.06	0.18	0.43	0.32	-0.31	-0.18	0.26	0.06	6770	9.9
6	O038	C	1.596	0.027	0.43	0.26	0.005	0.07	0.19	0.43	0.31	-0.34	-0.13	0.26	0.05	6774	9.9
7	O038	C	1.596	0.027	0.42	0.27	0.006	0.07	0.19	0.42	0.31	-0.30	-0.17	0.27	0.05	6783	9.9
8	O038	C	1.596	0.027	0.44	0.26	0.004	0.06	0.19	0.44	0.31	-0.31	-0.15	0.26	0.04	6819	9.9
9	O038	C	1.596	0.027	0.44	0.27	0.004	0.06	0.18	0.44	0.32	-0.30	-0.17	0.27	0.03	6795	9.9
10	O038	C	1.596	0.027	0.44	0.26	0.005	0.06	0.18	0.44	0.32	-0.29	-0.18	0.26	0.04	6790	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O038	C	1.596	0.027	0.44	0.28	0.003	0.07	0.18	0.44	0.31	-0.34	-0.15	0.28	0.03	6791	9.9
12	O038	C	1.596	0.027	0.44	0.26	0.005	0.07	0.18	0.44	0.31	-0.34	-0.16	0.26	0.06	6773	9.9
13	O038	C	1.596	0.027	0.42	0.25	0.005	0.07	0.19	0.42	0.33	-0.30	-0.17	0.25	0.06	6771	9.9
14	O038	C	1.596	0.027	0.43	0.27	0.005	0.06	0.18	0.43	0.32	-0.33	-0.14	0.27	0.04	6769	9.9
15	O038	C	1.596	0.027	0.44	0.26	0.003	0.06	0.19	0.44	0.31	-0.32	-0.18	0.26	0.05	6750	9.9
16	O038	C	1.596	0.027	0.44	0.25	0.005	0.05	0.18	0.44	0.32	-0.29	-0.16	0.25	0.04	6758	9.9
17	O038	C	1.596	0.027	0.43	0.27	0.004	0.06	0.19	0.43	0.31	-0.30	-0.16	0.27	0.03	6777	9.9
18	O038	C	1.596	0.027	0.43	0.25	0.006	0.06	0.18	0.43	0.32	-0.28	-0.17	0.25	0.06	6730	9.9
19	O038	C	1.596	0.027	0.42	0.25	0.005	0.07	0.18	0.42	0.32	-0.32	-0.15	0.25	0.05	6734	9.9
20	O038	C	1.596	0.027	0.44	0.27	0.006	0.06	0.18	0.44	0.32	-0.29	-0.16	0.27	0.03	6707	9.9
1	O039	C	1.006	0.026	0.52	0.44	0.019	0.38	0.05	0.52	0.03	-0.14	-0.26	0.44	-0.22	7273	8.0
2	O039	C	1.006	0.027	0.54	0.42	0.004	0.40	0.04	0.54	0.02	-0.23	-0.28	0.42	-0.21	6810	5.1
3	O039	C	1.006	0.027	0.55	0.41	0.005	0.39	0.04	0.55	0.02	-0.23	-0.24	0.41	-0.21	6803	6.4
4	O039	C	1.006	0.027	0.55	0.41	0.006	0.39	0.04	0.55	0.02	-0.24	-0.24	0.41	-0.20	6785	6.5
5	O039	C	1.006	0.027	0.54	0.44	0.004	0.39	0.04	0.54	0.03	-0.24	-0.25	0.44	-0.24	6770	3.2
6	O039	C	1.006	0.027	0.54	0.41	0.005	0.39	0.04	0.54	0.03	-0.20	-0.28	0.41	-0.21	6774	6.9
7	O039	C	1.006	0.027	0.55	0.39	0.005	0.38	0.04	0.55	0.03	-0.20	-0.26	0.39	-0.22	6783	6.4
8	O039	C	1.006	0.027	0.54	0.38	0.004	0.40	0.04	0.54	0.02	-0.22	-0.26	0.38	-0.18	6819	8.2
9	O039	C	1.006	0.027	0.54	0.41	0.004	0.39	0.04	0.54	0.02	-0.23	-0.27	0.41	-0.21	6795	5.7
10	O039	C	1.006	0.027	0.53	0.41	0.004	0.40	0.04	0.53	0.03	-0.21	-0.27	0.41	-0.24	6790	5.9
11	O039	C	1.006	0.027	0.55	0.41	0.004	0.38	0.04	0.55	0.02	-0.23	-0.27	0.41	-0.20	6791	6.4
12	O039	C	1.006	0.027	0.54	0.42	0.005	0.39	0.04	0.54	0.03	-0.23	-0.26	0.42	-0.21	6773	5.4
13	O039	C	1.006	0.027	0.54	0.41	0.005	0.39	0.04	0.54	0.03	-0.22	-0.26	0.41	-0.21	6771	6.5
14	O039	C	1.006	0.027	0.55	0.43	0.005	0.39	0.04	0.55	0.02	-0.24	-0.27	0.43	-0.20	6769	5.5
15	O039	C	1.006	0.027	0.55	0.41	0.003	0.39	0.04	0.55	0.03	-0.23	-0.26	0.41	-0.22	6750	6.4
16	O039	C	1.006	0.027	0.55	0.41	0.007	0.38	0.04	0.55	0.02	-0.23	-0.24	0.41	-0.20	6758	5.0
17	O039	C	1.006	0.027	0.54	0.42	0.004	0.39	0.04	0.54	0.02	-0.24	-0.26	0.42	-0.20	6777	5.7
18	O039	C	1.006	0.028	0.54	0.39	0.007	0.39	0.04	0.54	0.02	-0.20	-0.24	0.39	-0.22	6730	9.9
19	O039	C	1.006	0.027	0.54	0.41	0.005	0.38	0.04	0.54	0.03	-0.21	-0.26	0.41	-0.23	6734	5.4
20	O039	C	1.006	0.027	0.54	0.41	0.006	0.39	0.04	0.54	0.03	-0.21	-0.25	0.41	-0.22	6707	6.9
1	O040	A	0.841	0.027	0.53	0.47	0.019	0.53	0.08	0.16	0.22	0.47	-0.20	-0.19	-0.13	7273	4.2
2	O040	A	0.841	0.027	0.55	0.47	0.005	0.55	0.08	0.15	0.21	0.47	-0.27	-0.22	-0.17	6810	1.1
3	O040	A	0.841	0.027	0.56	0.44	0.007	0.56	0.08	0.15	0.21	0.44	-0.25	-0.21	-0.16	6803	2.5
4	O040	A	0.841	0.027	0.57	0.45	0.006	0.57	0.07	0.15	0.21	0.45	-0.24	-0.24	-0.16	6785	1.9
5	O040	A	0.841	0.027	0.57	0.45	0.004	0.57	0.08	0.15	0.21	0.45	-0.25	-0.23	-0.16	6770	1.7
6	O040	A	0.841	0.028	0.56	0.45	0.006	0.56	0.07	0.15	0.21	0.45	-0.25	-0.21	-0.16	6774	3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O040	A	0.841	0.027	0.57	0.46	0.007	0.57	0.07	0.15	0.21	0.46	-0.25	-0.23	-0.17	6783	-0.9
8	O040	A	0.841	0.027	0.58	0.45	0.004	0.58	0.08	0.15	0.19	0.45	-0.24	-0.21	-0.18	6819	0.2
9	O040	A	0.841	0.027	0.58	0.47	0.004	0.58	0.07	0.15	0.20	0.47	-0.27	-0.23	-0.17	6795	-0.3
10	O040	A	0.841	0.027	0.56	0.46	0.005	0.56	0.08	0.15	0.21	0.46	-0.24	-0.24	-0.16	6790	2.5
11	O040	A	0.841	0.027	0.56	0.44	0.004	0.56	0.08	0.15	0.21	0.44	-0.25	-0.21	-0.16	6791	3.9
12	O040	A	0.841	0.027	0.57	0.46	0.006	0.57	0.08	0.15	0.21	0.46	-0.27	-0.21	-0.17	6773	1.3
13	O040	A	0.841	0.027	0.58	0.44	0.006	0.58	0.07	0.14	0.20	0.44	-0.23	-0.22	-0.17	6771	2.1
14	O040	A	0.841	0.028	0.58	0.44	0.006	0.58	0.07	0.15	0.20	0.44	-0.25	-0.21	-0.16	6769	3.8
15	O040	A	0.841	0.027	0.57	0.45	0.004	0.57	0.08	0.15	0.20	0.45	-0.27	-0.20	-0.18	6750	1.6
16	O040	A	0.841	0.027	0.59	0.45	0.006	0.59	0.07	0.15	0.19	0.45	-0.23	-0.23	-0.16	6758	1.2
17	O040	A	0.841	0.028	0.57	0.46	0.005	0.57	0.08	0.15	0.21	0.46	-0.25	-0.21	-0.19	6777	3.5
18	O040	A	0.841	0.028	0.56	0.47	0.007	0.56	0.07	0.15	0.21	0.47	-0.23	-0.22	-0.19	6730	1.7
19	O040	A	0.841	0.027	0.57	0.42	0.006	0.57	0.08	0.14	0.21	0.42	-0.25	-0.19	-0.16	6734	4.1
20	O040	A	0.841	0.028	0.57	0.46	0.006	0.57	0.07	0.15	0.20	0.46	-0.28	-0.20	-0.16	6707	2.9
1	O041	D	0.144	0.028	0.66	0.45	0.021	0.18	0.06	0.08	0.66	-0.13	-0.27	-0.16	0.45	7273	4.4
2	O041	D	0.144	0.029	0.68	0.41	0.006	0.18	0.05	0.09	0.68	-0.17	-0.24	-0.21	0.41	6810	6.6
3	O041	D	0.144	0.029	0.70	0.41	0.007	0.16	0.05	0.08	0.70	-0.18	-0.27	-0.18	0.41	6803	4.4
4	O041	D	0.144	0.029	0.69	0.42	0.008	0.17	0.05	0.08	0.69	-0.19	-0.26	-0.18	0.42	6785	3.7
5	O041	D	0.144	0.029	0.69	0.41	0.006	0.17	0.05	0.08	0.69	-0.17	-0.28	-0.20	0.41	6770	4.0
6	O041	D	0.144	0.030	0.70	0.41	0.007	0.17	0.05	0.08	0.70	-0.18	-0.27	-0.18	0.41	6774	6.1
7	O041	D	0.144	0.029	0.70	0.39	0.007	0.17	0.04	0.08	0.70	-0.18	-0.25	-0.19	0.39	6783	3.1
8	O041	D	0.144	0.029	0.71	0.41	0.006	0.16	0.05	0.07	0.71	-0.18	-0.27	-0.20	0.41	6819	1.2
9	O041	D	0.144	0.029	0.70	0.42	0.005	0.17	0.05	0.08	0.70	-0.18	-0.27	-0.19	0.42	6795	3.6
10	O041	D	0.144	0.029	0.70	0.43	0.006	0.16	0.05	0.08	0.70	-0.19	-0.28	-0.21	0.43	6790	2.4
11	O041	D	0.144	0.029	0.69	0.40	0.005	0.17	0.05	0.08	0.69	-0.15	-0.26	-0.22	0.40	6791	4.8
12	O041	D	0.144	0.029	0.70	0.40	0.008	0.17	0.05	0.08	0.70	-0.16	-0.27	-0.20	0.40	6773	3.9
13	O041	D	0.144	0.029	0.69	0.42	0.008	0.17	0.05	0.08	0.69	-0.18	-0.25	-0.21	0.42	6771	4.6
14	O041	D	0.144	0.030	0.70	0.45	0.008	0.16	0.05	0.08	0.70	-0.17	-0.28	-0.24	0.45	6769	1.7
15	O041	D	0.144	0.030	0.69	0.40	0.006	0.17	0.05	0.08	0.69	-0.17	-0.28	-0.20	0.40	6750	5.4
16	O041	D	0.144	0.029	0.70	0.41	0.008	0.17	0.05	0.08	0.70	-0.17	-0.25	-0.19	0.41	6758	3.0
17	O041	D	0.144	0.030	0.69	0.40	0.006	0.17	0.05	0.08	0.69	-0.18	-0.26	-0.19	0.40	6777	6.6
18	O041	D	0.144	0.030	0.70	0.41	0.008	0.17	0.05	0.08	0.70	-0.18	-0.26	-0.17	0.41	6730	6.0
19	O041	D	0.144	0.030	0.70	0.42	0.008	0.18	0.04	0.08	0.70	-0.19	-0.27	-0.20	0.42	6734	3.2
20	O041	D	0.144	0.030	0.70	0.42	0.007	0.17	0.05	0.08	0.70	-0.19	-0.26	-0.20	0.42	6707	5.8
1	O042	B	-0.931	0.033	0.81	0.50	0.020	0.04	0.81	0.11	0.03	-0.26	0.50	-0.19	-0.21	7273	1.2
2	O042	B	-0.931	0.036	0.85	0.41	0.005	0.03	0.85	0.10	0.02	-0.27	0.41	-0.20	-0.20	6810	3.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O042	B	-0.931	0.036	0.85	0.41	0.007	0.03	0.85	0.09	0.02	-0.26	0.41	-0.18	-0.23	6803	2.9
4	O042	B	-0.931	0.036	0.85	0.38	0.006	0.03	0.85	0.10	0.02	-0.29	0.38	-0.15	-0.21	6785	4.1
5	O042	B	-0.931	0.036	0.84	0.41	0.005	0.03	0.84	0.09	0.02	-0.28	0.41	-0.17	-0.23	6770	3.5
6	O042	B	-0.931	0.037	0.84	0.41	0.006	0.03	0.84	0.10	0.02	-0.29	0.41	-0.16	-0.22	6774	5.7
7	O042	B	-0.931	0.036	0.85	0.40	0.006	0.03	0.85	0.09	0.02	-0.26	0.40	-0.16	-0.23	6783	3.2
8	O042	B	-0.931	0.036	0.85	0.39	0.005	0.03	0.85	0.10	0.02	-0.27	0.39	-0.19	-0.19	6819	2.8
9	O042	B	-0.931	0.036	0.86	0.38	0.004	0.03	0.86	0.09	0.02	-0.27	0.38	-0.18	-0.18	6795	3.6
10	O042	B	-0.931	0.036	0.84	0.41	0.005	0.04	0.84	0.10	0.02	-0.31	0.41	-0.17	-0.21	6790	4.8
11	O042	B	-0.931	0.036	0.85	0.38	0.004	0.03	0.85	0.10	0.02	-0.27	0.38	-0.16	-0.22	6791	3.9
12	O042	B	-0.931	0.037	0.85	0.41	0.007	0.03	0.85	0.10	0.02	-0.28	0.41	-0.18	-0.21	6773	3.4
13	O042	B	-0.931	0.037	0.85	0.39	0.005	0.03	0.85	0.10	0.02	-0.27	0.39	-0.17	-0.21	6771	3.4
14	O042	B	-0.931	0.037	0.85	0.40	0.004	0.03	0.85	0.10	0.02	-0.28	0.40	-0.17	-0.22	6769	4.7
15	O042	B	-0.931	0.037	0.85	0.39	0.003	0.03	0.85	0.10	0.02	-0.29	0.39	-0.17	-0.22	6750	3.6
16	O042	B	-0.931	0.037	0.85	0.40	0.006	0.03	0.85	0.09	0.02	-0.27	0.40	-0.17	-0.20	6758	3.7
17	O042	B	-0.931	0.038	0.85	0.37	0.005	0.03	0.85	0.10	0.02	-0.27	0.37	-0.16	-0.19	6777	7.0
18	O042	B	-0.931	0.038	0.85	0.40	0.007	0.03	0.85	0.09	0.02	-0.25	0.40	-0.16	-0.22	6730	5.5
19	O042	B	-0.931	0.037	0.85	0.39	0.005	0.03	0.85	0.09	0.02	-0.26	0.39	-0.18	-0.22	6734	4.0
20	O042	B	-0.931	0.038	0.85	0.44	0.006	0.03	0.85	0.10	0.02	-0.30	0.44	-0.19	-0.22	6707	3.3
1	O043	C	0.160	0.028	0.65	0.51	0.021	0.17	0.10	0.65	0.06	-0.07	-0.35	0.51	-0.24	7273	2.8
2	O043	C	0.160	0.029	0.70	0.48	0.006	0.16	0.09	0.70	0.05	-0.12	-0.37	0.48	-0.26	6810	0.4
3	O043	C	0.160	0.029	0.69	0.46	0.007	0.17	0.09	0.69	0.05	-0.11	-0.37	0.46	-0.24	6803	3.3
4	O043	C	0.160	0.029	0.69	0.47	0.007	0.17	0.09	0.69	0.05	-0.11	-0.39	0.47	-0.25	6785	2.5
5	O043	C	0.160	0.029	0.70	0.46	0.006	0.16	0.09	0.70	0.05	-0.09	-0.39	0.46	-0.24	6770	2.6
6	O043	C	0.160	0.030	0.69	0.47	0.007	0.17	0.09	0.69	0.04	-0.09	-0.40	0.47	-0.23	6774	3.4
7	O043	C	0.160	0.029	0.69	0.45	0.006	0.17	0.09	0.69	0.05	-0.09	-0.35	0.45	-0.27	6783	2.5
8	O043	C	0.160	0.029	0.69	0.45	0.005	0.17	0.09	0.69	0.05	-0.11	-0.36	0.45	-0.26	6819	2.7
9	O043	C	0.160	0.029	0.70	0.46	0.005	0.17	0.08	0.70	0.05	-0.13	-0.34	0.46	-0.26	6795	2.2
10	O043	C	0.160	0.029	0.69	0.48	0.006	0.17	0.09	0.69	0.05	-0.11	-0.37	0.48	-0.29	6790	2.5
11	O043	C	0.160	0.029	0.69	0.45	0.005	0.17	0.09	0.69	0.05	-0.09	-0.37	0.45	-0.26	6791	3.9
12	O043	C	0.160	0.029	0.69	0.46	0.008	0.17	0.09	0.69	0.05	-0.09	-0.36	0.46	-0.25	6773	5.5
13	O043	C	0.160	0.029	0.70	0.45	0.006	0.17	0.08	0.70	0.05	-0.11	-0.35	0.45	-0.24	6771	3.0
14	O043	C	0.160	0.030	0.70	0.47	0.006	0.16	0.09	0.70	0.05	-0.08	-0.39	0.47	-0.29	6769	3.2
15	O043	C	0.160	0.030	0.70	0.46	0.005	0.17	0.08	0.70	0.04	-0.10	-0.39	0.46	-0.26	6750	3.3
16	O043	C	0.160	0.029	0.70	0.46	0.007	0.17	0.08	0.70	0.05	-0.11	-0.35	0.46	-0.26	6758	1.7
17	O043	C	0.160	0.030	0.68	0.46	0.005	0.17	0.09	0.68	0.05	-0.12	-0.36	0.46	-0.27	6777	5.7
18	O043	C	0.160	0.030	0.69	0.45	0.008	0.17	0.08	0.69	0.05	-0.09	-0.36	0.45	-0.27	6730	6.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O043	C	0.160	0.029	0.68	0.43	0.005	0.18	0.08	0.68	0.05	-0.09	-0.35	0.43	-0.28	6734	7.2
20	O043	C	0.160	0.030	0.69	0.47	0.007	0.17	0.09	0.69	0.05	-0.11	-0.38	0.47	-0.25	6707	4.6
1	O044	B	-0.284	0.030	0.71	0.54	0.021	0.07	0.71	0.16	0.04	-0.26	0.54	-0.19	-0.26	7273	-3.1
2	O044	B	-0.284	0.032	0.76	0.50	0.006	0.06	0.76	0.14	0.03	-0.29	0.50	-0.24	-0.26	6810	-4.1
3	O044	B	-0.284	0.031	0.76	0.50	0.008	0.06	0.76	0.14	0.03	-0.31	0.50	-0.22	-0.27	6803	-4.5
4	O044	B	-0.284	0.032	0.77	0.50	0.006	0.06	0.77	0.13	0.03	-0.31	0.50	-0.22	-0.26	6785	-5.2
5	O044	B	-0.284	0.032	0.76	0.49	0.006	0.06	0.76	0.15	0.03	-0.29	0.49	-0.24	-0.25	6770	-4.5
6	O044	B	-0.284	0.032	0.76	0.50	0.006	0.06	0.76	0.14	0.03	-0.29	0.50	-0.23	-0.27	6774	-3.0
7	O044	B	-0.284	0.031	0.75	0.51	0.006	0.06	0.75	0.15	0.03	-0.31	0.51	-0.24	-0.26	6783	-5.3
8	O044	B	-0.284	0.031	0.76	0.49	0.006	0.06	0.76	0.15	0.03	-0.28	0.49	-0.24	-0.27	6819	-4.0
9	O044	B	-0.284	0.031	0.76	0.49	0.005	0.06	0.76	0.14	0.03	-0.28	0.49	-0.24	-0.25	6795	-4.2
10	O044	B	-0.284	0.032	0.76	0.50	0.006	0.06	0.76	0.15	0.03	-0.28	0.50	-0.25	-0.26	6790	-2.9
11	O044	B	-0.284	0.031	0.76	0.49	0.005	0.06	0.76	0.14	0.04	-0.27	0.49	-0.23	-0.29	6791	-4.8
12	O044	B	-0.284	0.032	0.76	0.51	0.008	0.06	0.76	0.15	0.03	-0.29	0.51	-0.24	-0.26	6773	-3.3
13	O044	B	-0.284	0.032	0.76	0.49	0.005	0.06	0.76	0.14	0.03	-0.29	0.49	-0.24	-0.25	6771	-3.6
14	O044	B	-0.284	0.032	0.77	0.49	0.005	0.06	0.77	0.14	0.03	-0.29	0.49	-0.23	-0.27	6769	-3.8
15	O044	B	-0.284	0.032	0.76	0.49	0.004	0.06	0.76	0.15	0.03	-0.29	0.49	-0.25	-0.27	6750	-3.5
16	O044	B	-0.284	0.032	0.78	0.48	0.007	0.06	0.78	0.13	0.02	-0.29	0.48	-0.21	-0.25	6758	-4.7
17	O044	B	-0.284	0.032	0.76	0.49	0.005	0.06	0.76	0.14	0.03	-0.29	0.49	-0.25	-0.26	6777	-2.8
18	O044	B	-0.284	0.033	0.76	0.49	0.007	0.06	0.76	0.15	0.03	-0.28	0.49	-0.23	-0.25	6730	-2.2
19	O044	B	-0.284	0.032	0.76	0.49	0.005	0.06	0.76	0.15	0.03	-0.29	0.49	-0.25	-0.26	6734	-4.3
20	O044	B	-0.284	0.032	0.76	0.51	0.007	0.06	0.76	0.15	0.03	-0.28	0.51	-0.25	-0.24	6707	-2.8
1	O045	A	-0.564	0.031	0.74	0.57	0.021	0.74	0.04	0.08	0.12	0.57	-0.28	-0.26	-0.20	7273	-3.7
2	O045	A	-0.564	0.033	0.79	0.49	0.006	0.79	0.03	0.06	0.12	0.49	-0.26	-0.28	-0.24	6810	-2.2
3	O045	A	-0.564	0.033	0.79	0.51	0.008	0.79	0.03	0.06	0.12	0.51	-0.26	-0.29	-0.26	6803	-2.9
4	O045	A	-0.564	0.033	0.79	0.50	0.007	0.79	0.03	0.06	0.12	0.50	-0.24	-0.27	-0.26	6785	-2.9
5	O045	A	-0.564	0.033	0.80	0.49	0.006	0.80	0.03	0.06	0.11	0.49	-0.25	-0.29	-0.24	6770	-4.4
6	O045	A	-0.564	0.034	0.79	0.49	0.007	0.79	0.03	0.06	0.12	0.49	-0.25	-0.25	-0.25	6774	-0.4
7	O045	A	-0.564	0.033	0.79	0.50	0.006	0.79	0.03	0.06	0.12	0.50	-0.26	-0.29	-0.24	6783	-3.2
8	O045	A	-0.564	0.033	0.79	0.49	0.005	0.79	0.03	0.06	0.12	0.49	-0.28	-0.26	-0.25	6819	-1.9
9	O045	A	-0.564	0.033	0.79	0.50	0.005	0.79	0.03	0.07	0.11	0.50	-0.27	-0.29	-0.23	6795	-3.5
10	O045	A	-0.564	0.033	0.79	0.51	0.005	0.79	0.03	0.06	0.11	0.51	-0.29	-0.27	-0.25	6790	-3.0
11	O045	A	-0.564	0.033	0.79	0.50	0.006	0.79	0.02	0.06	0.11	0.50	-0.26	-0.29	-0.25	6791	-4.1
12	O045	A	-0.564	0.034	0.79	0.53	0.008	0.79	0.03	0.06	0.12	0.53	-0.25	-0.29	-0.27	6773	-4.2
13	O045	A	-0.564	0.034	0.80	0.50	0.006	0.80	0.03	0.06	0.12	0.50	-0.28	-0.25	-0.26	6771	-3.0
14	O045	A	-0.564	0.034	0.80	0.53	0.006	0.80	0.03	0.06	0.11	0.53	-0.30	-0.26	-0.28	6769	-5.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O045	A	-0.564	0.034	0.80	0.50	0.004	0.80	0.03	0.06	0.11	0.50	-0.29	-0.28	-0.25	6750	-3.1
16	O045	A	-0.564	0.034	0.79	0.49	0.006	0.79	0.03	0.06	0.12	0.49	-0.25	-0.26	-0.24	6758	-2.9
17	O045	A	-0.564	0.034	0.79	0.49	0.005	0.79	0.03	0.06	0.12	0.49	-0.25	-0.27	-0.27	6777	-1.6
18	O045	A	-0.564	0.035	0.79	0.50	0.007	0.79	0.03	0.06	0.11	0.50	-0.26	-0.27	-0.23	6730	-0.4
19	O045	A	-0.564	0.034	0.80	0.48	0.005	0.80	0.02	0.06	0.12	0.48	-0.27	-0.27	-0.24	6734	-3.1
20	O045	A	-0.564	0.034	0.80	0.50	0.006	0.80	0.03	0.06	0.11	0.50	-0.27	-0.28	-0.23	6707	-1.3
1	O046	A	-0.378	0.030	0.74	0.56	0.021	0.74	0.05	0.09	0.10	0.56	-0.23	-0.27	-0.20	7273	-6.5
2	O046	A	-0.378	0.032	0.77	0.49	0.007	0.77	0.05	0.07	0.10	0.49	-0.27	-0.27	-0.20	6810	-1.8
3	O046	A	-0.378	0.032	0.77	0.49	0.008	0.77	0.05	0.08	0.10	0.49	-0.26	-0.28	-0.19	6803	-1.3
4	O046	A	-0.378	0.032	0.77	0.48	0.007	0.77	0.05	0.07	0.10	0.48	-0.26	-0.27	-0.19	6785	-1.3
5	O046	A	-0.378	0.032	0.78	0.50	0.006	0.78	0.05	0.08	0.09	0.50	-0.29	-0.27	-0.21	6770	-4.0
6	O046	A	-0.378	0.033	0.78	0.49	0.006	0.78	0.05	0.07	0.09	0.49	-0.27	-0.29	-0.17	6774	-1.9
7	O046	A	-0.378	0.032	0.78	0.48	0.006	0.78	0.05	0.07	0.10	0.48	-0.25	-0.27	-0.20	6783	-3.1
8	O046	A	-0.378	0.032	0.78	0.47	0.005	0.78	0.05	0.08	0.09	0.47	-0.26	-0.25	-0.20	6819	-2.9
9	O046	A	-0.378	0.032	0.78	0.47	0.005	0.78	0.05	0.08	0.09	0.47	-0.26	-0.28	-0.17	6795	-2.6
10	O046	A	-0.378	0.032	0.78	0.47	0.006	0.78	0.05	0.08	0.09	0.47	-0.25	-0.28	-0.18	6790	-2.5
11	O046	A	-0.378	0.032	0.78	0.49	0.005	0.78	0.05	0.07	0.09	0.49	-0.27	-0.28	-0.20	6791	-3.7
12	O046	A	-0.378	0.032	0.78	0.48	0.008	0.78	0.06	0.07	0.09	0.48	-0.29	-0.25	-0.18	6773	-1.9
13	O046	A	-0.378	0.032	0.78	0.47	0.006	0.78	0.05	0.07	0.10	0.47	-0.25	-0.29	-0.18	6771	-1.5
14	O046	A	-0.378	0.032	0.79	0.45	0.006	0.79	0.05	0.07	0.09	0.45	-0.25	-0.27	-0.18	6769	-1.8
15	O046	A	-0.378	0.033	0.78	0.48	0.004	0.78	0.05	0.08	0.09	0.48	-0.28	-0.26	-0.20	6750	-2.9
16	O046	A	-0.378	0.032	0.79	0.47	0.007	0.79	0.05	0.07	0.09	0.47	-0.25	-0.27	-0.18	6758	-3.0
17	O046	A	-0.378	0.033	0.78	0.47	0.005	0.78	0.05	0.07	0.09	0.47	-0.27	-0.26	-0.19	6777	-0.4
18	O046	A	-0.378	0.033	0.78	0.50	0.007	0.78	0.05	0.07	0.10	0.50	-0.26	-0.27	-0.20	6730	-1.1
19	O046	A	-0.378	0.032	0.78	0.46	0.005	0.78	0.05	0.07	0.09	0.46	-0.25	-0.26	-0.20	6734	-1.9
20	O046	A	-0.378	0.033	0.77	0.49	0.006	0.77	0.05	0.08	0.10	0.49	-0.27	-0.27	-0.20	6707	-0.4
1	O047	B	1.024	0.026	0.50	0.52	0.021	0.22	0.50	0.20	0.05	-0.15	0.52	-0.23	-0.22	7273	-0.4
2	O047	B	1.024	0.027	0.53	0.52	0.006	0.23	0.53	0.19	0.05	-0.20	0.52	-0.29	-0.22	6810	-5.3
3	O047	B	1.024	0.027	0.54	0.51	0.008	0.23	0.54	0.18	0.05	-0.19	0.51	-0.27	-0.26	6803	-4.5
4	O047	B	1.024	0.027	0.53	0.50	0.007	0.22	0.53	0.19	0.05	-0.18	0.50	-0.28	-0.23	6785	-3.5
5	O047	B	1.024	0.027	0.54	0.50	0.006	0.22	0.54	0.18	0.05	-0.18	0.50	-0.26	-0.26	6770	-2.5
6	O047	B	1.024	0.027	0.53	0.50	0.007	0.23	0.53	0.18	0.05	-0.16	0.50	-0.28	-0.25	6774	-2.9
7	O047	B	1.024	0.027	0.53	0.52	0.006	0.23	0.53	0.19	0.05	-0.19	0.52	-0.28	-0.26	6783	-5.6
8	O047	B	1.024	0.027	0.54	0.50	0.005	0.22	0.54	0.19	0.05	-0.17	0.50	-0.28	-0.26	6819	-4.2
9	O047	B	1.024	0.027	0.53	0.52	0.005	0.23	0.53	0.18	0.05	-0.19	0.52	-0.27	-0.25	6795	-4.5
10	O047	B	1.024	0.027	0.53	0.49	0.005	0.22	0.53	0.19	0.05	-0.16	0.49	-0.27	-0.26	6790	-1.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O047	B	1.024	0.027	0.54	0.51	0.005	0.22	0.54	0.19	0.05	-0.17	0.51	-0.28	-0.28	6791	-3.3
12	O047	B	1.024	0.027	0.55	0.53	0.008	0.22	0.55	0.18	0.05	-0.20	0.53	-0.28	-0.25	6773	-5.2
13	O047	B	1.024	0.027	0.53	0.50	0.006	0.23	0.53	0.19	0.05	-0.17	0.50	-0.28	-0.25	6771	-3.1
14	O047	B	1.024	0.027	0.54	0.51	0.005	0.23	0.54	0.18	0.05	-0.20	0.51	-0.27	-0.25	6769	-2.8
15	O047	B	1.024	0.027	0.55	0.50	0.003	0.22	0.55	0.18	0.05	-0.18	0.50	-0.28	-0.27	6750	-2.8
16	O047	B	1.024	0.027	0.54	0.52	0.007	0.23	0.54	0.18	0.05	-0.20	0.52	-0.28	-0.23	6758	-5.4
17	O047	B	1.024	0.027	0.53	0.53	0.005	0.23	0.53	0.19	0.05	-0.21	0.53	-0.29	-0.23	6777	-4.6
18	O047	B	1.024	0.028	0.53	0.49	0.007	0.22	0.53	0.19	0.04	-0.17	0.49	-0.28	-0.23	6730	-1.1
19	O047	B	1.024	0.027	0.53	0.50	0.006	0.22	0.53	0.19	0.05	-0.17	0.50	-0.28	-0.24	6734	-3.9
20	O047	B	1.024	0.027	0.54	0.49	0.006	0.22	0.54	0.18	0.05	-0.18	0.49	-0.24	-0.27	6707	-0.5
1	O048	A	-1.512	0.039	0.85	0.64	0.021	0.85	0.06	0.03	0.03	0.64	-0.35	-0.24	-0.24	7273	-8.8
2	O048	A	-1.512	0.043	0.89	0.53	0.007	0.89	0.05	0.03	0.03	0.53	-0.34	-0.23	-0.24	6810	-5.7
3	O048	A	-1.512	0.043	0.89	0.57	0.008	0.89	0.05	0.02	0.03	0.57	-0.34	-0.25	-0.28	6803	-8.2
4	O048	A	-1.512	0.043	0.89	0.55	0.009	0.89	0.05	0.02	0.03	0.55	-0.35	-0.23	-0.27	6785	-7.4
5	O048	A	-1.512	0.043	0.89	0.56	0.007	0.89	0.05	0.02	0.03	0.56	-0.35	-0.25	-0.27	6770	-8.9
6	O048	A	-1.512	0.044	0.89	0.56	0.007	0.89	0.05	0.02	0.03	0.56	-0.35	-0.24	-0.27	6774	-7.7
7	O048	A	-1.512	0.043	0.90	0.53	0.007	0.90	0.04	0.02	0.03	0.53	-0.34	-0.21	-0.27	6783	-6.9
8	O048	A	-1.512	0.043	0.89	0.55	0.006	0.89	0.05	0.02	0.03	0.55	-0.33	-0.24	-0.28	6819	-8.1
9	O048	A	-1.512	0.043	0.90	0.54	0.005	0.90	0.05	0.02	0.03	0.54	-0.36	-0.22	-0.27	6795	-6.9
10	O048	A	-1.512	0.043	0.88	0.57	0.006	0.88	0.06	0.02	0.03	0.57	-0.38	-0.23	-0.27	6790	-6.0
11	O048	A	-1.512	0.043	0.90	0.54	0.006	0.90	0.05	0.02	0.03	0.54	-0.34	-0.24	-0.26	6791	-8.9
12	O048	A	-1.512	0.043	0.89	0.54	0.008	0.89	0.05	0.02	0.03	0.54	-0.32	-0.24	-0.26	6773	-7.0
13	O048	A	-1.512	0.044	0.90	0.53	0.006	0.90	0.05	0.02	0.03	0.53	-0.33	-0.22	-0.27	6771	-7.4
14	O048	A	-1.512	0.043	0.90	0.55	0.006	0.90	0.05	0.02	0.03	0.55	-0.34	-0.25	-0.27	6769	-8.4
15	O048	A	-1.512	0.044	0.90	0.55	0.004	0.90	0.04	0.02	0.03	0.55	-0.35	-0.24	-0.28	6750	-9.2
16	O048	A	-1.512	0.043	0.89	0.55	0.007	0.89	0.05	0.02	0.03	0.55	-0.33	-0.23	-0.27	6758	-6.7
17	O048	A	-1.512	0.045	0.90	0.50	0.005	0.90	0.05	0.02	0.03	0.50	-0.33	-0.21	-0.25	6777	-6.0
18	O048	A	-1.512	0.045	0.90	0.55	0.008	0.90	0.05	0.02	0.03	0.55	-0.34	-0.23	-0.26	6730	-5.7
19	O048	A	-1.512	0.044	0.90	0.52	0.006	0.90	0.04	0.02	0.03	0.52	-0.32	-0.24	-0.26	6734	-6.3
20	O048	A	-1.512	0.044	0.90	0.55	0.006	0.90	0.05	0.02	0.03	0.55	-0.35	-0.22	-0.25	6707	-7.0
1	O049	D	0.135	0.028	0.67	0.49	0.022	0.07	0.11	0.13	0.67	-0.14	-0.18	-0.25	0.49	7273	1.2
2	O049	D	0.135	0.029	0.69	0.48	0.008	0.06	0.11	0.13	0.69	-0.17	-0.20	-0.31	0.48	6810	1.2
3	O049	D	0.135	0.029	0.69	0.48	0.009	0.06	0.12	0.13	0.69	-0.16	-0.21	-0.30	0.48	6803	1.0
4	O049	D	0.135	0.029	0.69	0.49	0.010	0.06	0.11	0.13	0.69	-0.15	-0.21	-0.32	0.49	6785	0.7
5	O049	D	0.135	0.029	0.70	0.48	0.007	0.06	0.11	0.13	0.70	-0.15	-0.22	-0.31	0.48	6770	0.2
6	O049	D	0.135	0.030	0.69	0.47	0.009	0.07	0.10	0.13	0.69	-0.16	-0.19	-0.29	0.47	6774	4.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O049	D	0.135	0.029	0.70	0.46	0.008	0.06	0.10	0.12	0.70	-0.14	-0.21	-0.29	0.46	6783	0.1
8	O049	D	0.135	0.029	0.70	0.46	0.007	0.07	0.11	0.12	0.70	-0.15	-0.20	-0.31	0.46	6819	-0.1
9	O049	D	0.135	0.029	0.70	0.46	0.006	0.06	0.11	0.13	0.70	-0.16	-0.20	-0.30	0.46	6795	1.6
10	O049	D	0.135	0.029	0.68	0.48	0.006	0.07	0.11	0.13	0.68	-0.17	-0.19	-0.32	0.48	6790	1.1
11	O049	D	0.135	0.029	0.69	0.48	0.007	0.06	0.11	0.13	0.69	-0.15	-0.21	-0.32	0.48	6791	0.8
12	O049	D	0.135	0.030	0.70	0.48	0.010	0.06	0.11	0.13	0.70	-0.18	-0.21	-0.28	0.48	6773	0.2
13	O049	D	0.135	0.030	0.70	0.48	0.007	0.06	0.11	0.12	0.70	-0.16	-0.21	-0.30	0.48	6771	0.3
14	O049	D	0.135	0.030	0.70	0.47	0.007	0.06	0.11	0.13	0.70	-0.15	-0.20	-0.32	0.47	6769	2.0
15	O049	D	0.135	0.030	0.71	0.48	0.005	0.06	0.10	0.13	0.71	-0.17	-0.20	-0.33	0.48	6750	0.0
16	O049	D	0.135	0.029	0.71	0.47	0.009	0.06	0.10	0.12	0.71	-0.15	-0.23	-0.27	0.47	6758	0.6
17	O049	D	0.135	0.030	0.70	0.46	0.006	0.06	0.11	0.13	0.70	-0.14	-0.21	-0.31	0.46	6777	3.9
18	O049	D	0.135	0.030	0.70	0.47	0.009	0.06	0.10	0.12	0.70	-0.15	-0.20	-0.30	0.47	6730	4.0
19	O049	D	0.135	0.030	0.69	0.46	0.007	0.06	0.11	0.13	0.69	-0.13	-0.20	-0.31	0.46	6734	2.3
20	O049	D	0.135	0.030	0.69	0.49	0.007	0.06	0.11	0.13	0.69	-0.15	-0.20	-0.32	0.49	6707	2.7
1	O050	D	-0.032	0.029	0.68	0.60	0.024	0.13	0.05	0.12	0.68	-0.32	-0.24	-0.19	0.60	7273	-9.9
2	O050	D	-0.032	0.030	0.72	0.56	0.008	0.11	0.05	0.11	0.72	-0.34	-0.30	-0.21	0.56	6810	-8.1
3	O050	D	-0.032	0.030	0.72	0.55	0.010	0.11	0.05	0.12	0.72	-0.34	-0.28	-0.20	0.55	6803	-7.2
4	O050	D	-0.032	0.030	0.72	0.55	0.010	0.11	0.05	0.12	0.72	-0.34	-0.30	-0.19	0.55	6785	-6.9
5	O050	D	-0.032	0.030	0.71	0.57	0.008	0.11	0.04	0.13	0.71	-0.37	-0.27	-0.22	0.57	6770	-8.2
6	O050	D	-0.032	0.031	0.71	0.56	0.009	0.11	0.05	0.12	0.71	-0.33	-0.30	-0.20	0.56	6774	-5.6
7	O050	D	-0.032	0.030	0.71	0.57	0.010	0.11	0.05	0.12	0.71	-0.35	-0.29	-0.21	0.57	6783	-8.6
8	O050	D	-0.032	0.030	0.72	0.55	0.008	0.11	0.05	0.12	0.72	-0.34	-0.30	-0.19	0.55	6819	-7.9
9	O050	D	-0.032	0.030	0.73	0.55	0.007	0.11	0.04	0.11	0.73	-0.34	-0.28	-0.22	0.55	6795	-8.8
10	O050	D	-0.032	0.030	0.71	0.56	0.008	0.11	0.05	0.13	0.71	-0.33	-0.30	-0.22	0.56	6790	-7.2
11	O050	D	-0.032	0.030	0.71	0.56	0.008	0.11	0.05	0.12	0.71	-0.35	-0.29	-0.21	0.56	6791	-7.5
12	O050	D	-0.032	0.030	0.71	0.55	0.010	0.11	0.05	0.12	0.71	-0.34	-0.27	-0.19	0.55	6773	-5.6
13	O050	D	-0.032	0.030	0.72	0.56	0.008	0.11	0.04	0.12	0.72	-0.36	-0.27	-0.20	0.56	6771	-7.2
14	O050	D	-0.032	0.030	0.71	0.56	0.008	0.12	0.04	0.12	0.71	-0.35	-0.29	-0.21	0.56	6769	-6.7
15	O050	D	-0.032	0.031	0.73	0.55	0.006	0.11	0.05	0.11	0.73	-0.36	-0.31	-0.18	0.55	6750	-7.8
16	O050	D	-0.032	0.030	0.73	0.57	0.009	0.10	0.04	0.12	0.73	-0.36	-0.28	-0.21	0.57	6758	-9.4
17	O050	D	-0.032	0.031	0.71	0.57	0.007	0.11	0.05	0.12	0.71	-0.36	-0.29	-0.21	0.57	6777	-4.6
18	O050	D	-0.032	0.031	0.72	0.55	0.010	0.11	0.05	0.11	0.72	-0.34	-0.27	-0.20	0.55	6730	-5.3
19	O050	D	-0.032	0.030	0.71	0.53	0.008	0.11	0.05	0.12	0.71	-0.33	-0.26	-0.21	0.53	6734	-5.1
20	O050	D	-0.032	0.031	0.72	0.55	0.007	0.11	0.05	0.11	0.72	-0.33	-0.28	-0.20	0.55	6707	-5.0
1	O117	C	-0.626	0.031	0.77	0.55	0.017	0.04	0.05	0.77	0.12	-0.26	-0.25	0.55	-0.21	7273	-4.7
2	O117	C	-0.626	0.034	0.80	0.49	0.003	0.04	0.05	0.80	0.12	-0.29	-0.29	0.49	-0.22	6810	-1.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O117	C	-0.626	0.034	0.79	0.49	0.004	0.04	0.05	0.79	0.12	-0.29	-0.29	0.49	-0.22	6803	-0.6
4	O117	C	-0.626	0.034	0.80	0.48	0.003	0.04	0.04	0.80	0.11	-0.28	-0.29	0.48	-0.21	6785	-0.9
5	O117	C	-0.626	0.034	0.81	0.50	0.002	0.04	0.05	0.81	0.11	-0.32	-0.28	0.50	-0.23	6770	-3.3
6	O117	C	-0.626	0.035	0.80	0.50	0.004	0.04	0.05	0.80	0.11	-0.31	-0.28	0.50	-0.21	6774	0.0
7	O117	C	-0.626	0.034	0.81	0.48	0.003	0.04	0.05	0.81	0.11	-0.28	-0.30	0.48	-0.21	6783	-3.2
8	O117	C	-0.626	0.034	0.81	0.49	0.003	0.04	0.05	0.81	0.10	-0.28	-0.28	0.49	-0.24	6819	-3.3
9	O117	C	-0.626	0.034	0.81	0.47	0.003	0.03	0.05	0.81	0.11	-0.29	-0.29	0.47	-0.21	6795	-2.3
10	O117	C	-0.626	0.034	0.81	0.49	0.003	0.04	0.05	0.81	0.11	-0.31	-0.28	0.49	-0.22	6790	-3.3
11	O117	C	-0.626	0.034	0.80	0.48	0.003	0.03	0.05	0.80	0.12	-0.27	-0.31	0.48	-0.23	6791	-1.7
12	O117	C	-0.626	0.034	0.81	0.50	0.004	0.04	0.05	0.81	0.10	-0.31	-0.31	0.50	-0.20	6773	-3.0
13	O117	C	-0.626	0.034	0.81	0.48	0.003	0.03	0.05	0.81	0.11	-0.28	-0.29	0.48	-0.22	6771	-1.3
14	O117	C	-0.626	0.034	0.82	0.49	0.004	0.03	0.04	0.82	0.10	-0.28	-0.27	0.49	-0.23	6769	-4.6
15	O117	C	-0.626	0.034	0.82	0.49	0.002	0.04	0.04	0.82	0.11	-0.32	-0.25	0.49	-0.24	6750	-2.1
16	O117	C	-0.626	0.034	0.80	0.50	0.004	0.03	0.05	0.80	0.11	-0.27	-0.30	0.50	-0.22	6758	-2.3
17	O117	C	-0.626	0.035	0.80	0.48	0.003	0.03	0.05	0.80	0.12	-0.29	-0.28	0.48	-0.22	6777	2.0
18	O117	C	-0.626	0.035	0.81	0.47	0.005	0.03	0.05	0.81	0.11	-0.29	-0.27	0.47	-0.21	6730	0.7
19	O117	C	-0.626	0.034	0.81	0.48	0.003	0.03	0.05	0.81	0.12	-0.26	-0.28	0.48	-0.25	6734	-1.3
20	O117	C	-0.626	0.035	0.81	0.49	0.004	0.03	0.04	0.81	0.11	-0.27	-0.28	0.49	-0.23	6707	-2.4
1	O118	C	-1.251	0.036	0.84	0.45	0.017	0.06	0.05	0.84	0.03	-0.12	-0.23	0.45	-0.20	7273	4.4
2	O118	C	-1.251	0.040	0.88	0.35	0.003	0.06	0.04	0.88	0.03	-0.13	-0.22	0.35	-0.21	6810	3.9
3	O118	C	-1.251	0.040	0.87	0.34	0.004	0.06	0.04	0.87	0.03	-0.13	-0.20	0.34	-0.20	6803	6.1
4	O118	C	-1.251	0.040	0.88	0.34	0.003	0.06	0.03	0.88	0.02	-0.13	-0.20	0.34	-0.21	6785	4.9
5	O118	C	-1.251	0.040	0.88	0.35	0.003	0.06	0.04	0.88	0.02	-0.14	-0.22	0.35	-0.21	6770	3.3
6	O118	C	-1.251	0.041	0.88	0.38	0.004	0.06	0.04	0.88	0.03	-0.15	-0.21	0.38	-0.23	6774	3.8
7	O118	C	-1.251	0.039	0.88	0.32	0.004	0.06	0.03	0.88	0.03	-0.13	-0.17	0.32	-0.21	6783	4.3
8	O118	C	-1.251	0.040	0.88	0.31	0.002	0.06	0.03	0.88	0.03	-0.12	-0.20	0.31	-0.18	6819	4.4
9	O118	C	-1.251	0.040	0.87	0.32	0.003	0.07	0.04	0.87	0.02	-0.12	-0.22	0.32	-0.18	6795	5.7
10	O118	C	-1.251	0.040	0.87	0.35	0.003	0.06	0.04	0.87	0.03	-0.13	-0.25	0.35	-0.19	6790	4.9
11	O118	C	-1.251	0.039	0.89	0.34	0.003	0.05	0.04	0.89	0.02	-0.13	-0.23	0.34	-0.18	6791	1.7
12	O118	C	-1.251	0.040	0.88	0.32	0.004	0.06	0.04	0.88	0.02	-0.12	-0.20	0.32	-0.18	6773	5.2
13	O118	C	-1.251	0.040	0.87	0.34	0.003	0.07	0.04	0.87	0.03	-0.13	-0.23	0.34	-0.18	6771	7.0
14	O118	C	-1.251	0.040	0.89	0.37	0.004	0.05	0.03	0.89	0.02	-0.14	-0.24	0.37	-0.22	6769	1.2
15	O118	C	-1.251	0.040	0.88	0.34	0.003	0.06	0.03	0.88	0.02	-0.13	-0.23	0.34	-0.20	6750	5.1
16	O118	C	-1.251	0.040	0.87	0.34	0.004	0.07	0.04	0.87	0.02	-0.12	-0.22	0.34	-0.18	6758	6.3
17	O118	C	-1.251	0.041	0.88	0.34	0.003	0.06	0.04	0.88	0.03	-0.12	-0.23	0.34	-0.21	6777	5.2
18	O118	C	-1.251	0.041	0.88	0.34	0.005	0.06	0.04	0.88	0.02	-0.11	-0.22	0.34	-0.18	6730	7.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O118	C	-1.251	0.041	0.88	0.31	0.002	0.07	0.03	0.88	0.02	-0.15	-0.18	0.31	-0.17	6734	7.1
20	O118	C	-1.251	0.041	0.87	0.37	0.004	0.06	0.04	0.87	0.02	-0.13	-0.24	0.37	-0.19	6707	5.7
1	O119	A	-1.060	0.034	0.80	0.60	0.018	0.80	0.05	0.09	0.04	0.60	-0.22	-0.31	-0.24	7273	-5.7
2	O119	A	-1.060	0.038	0.84	0.54	0.003	0.84	0.04	0.08	0.04	0.54	-0.23	-0.34	-0.27	6810	-5.3
3	O119	A	-1.060	0.038	0.85	0.56	0.004	0.85	0.04	0.08	0.03	0.56	-0.25	-0.34	-0.29	6803	-6.5
4	O119	A	-1.060	0.038	0.85	0.56	0.003	0.85	0.04	0.08	0.03	0.56	-0.24	-0.36	-0.26	6785	-5.9
5	O119	A	-1.060	0.038	0.85	0.55	0.002	0.85	0.04	0.07	0.03	0.55	-0.25	-0.35	-0.26	6770	-6.6
6	O119	A	-1.060	0.039	0.85	0.56	0.004	0.85	0.04	0.07	0.04	0.56	-0.25	-0.33	-0.29	6774	-5.2
7	O119	A	-1.060	0.037	0.85	0.53	0.004	0.85	0.04	0.08	0.03	0.53	-0.24	-0.33	-0.25	6783	-6.9
8	O119	A	-1.060	0.037	0.85	0.53	0.003	0.85	0.04	0.08	0.03	0.53	-0.25	-0.33	-0.25	6819	-6.9
9	O119	A	-1.060	0.038	0.85	0.54	0.003	0.85	0.04	0.08	0.03	0.54	-0.24	-0.34	-0.27	6795	-5.3
10	O119	A	-1.060	0.038	0.84	0.54	0.003	0.84	0.04	0.08	0.04	0.54	-0.25	-0.33	-0.27	6790	-5.6
11	O119	A	-1.060	0.037	0.84	0.53	0.003	0.84	0.04	0.07	0.04	0.53	-0.22	-0.33	-0.27	6791	-5.3
12	O119	A	-1.060	0.038	0.85	0.56	0.004	0.85	0.04	0.08	0.04	0.56	-0.23	-0.35	-0.27	6773	-7.1
13	O119	A	-1.060	0.038	0.86	0.53	0.003	0.86	0.03	0.07	0.03	0.53	-0.22	-0.33	-0.27	6771	-5.6
14	O119	A	-1.060	0.038	0.85	0.54	0.003	0.85	0.04	0.07	0.04	0.54	-0.23	-0.32	-0.28	6769	-5.0
15	O119	A	-1.060	0.038	0.85	0.56	0.003	0.85	0.04	0.08	0.03	0.56	-0.25	-0.36	-0.27	6750	-5.0
16	O119	A	-1.060	0.038	0.86	0.54	0.004	0.86	0.03	0.07	0.03	0.54	-0.22	-0.34	-0.26	6758	-7.5
17	O119	A	-1.060	0.039	0.85	0.54	0.002	0.85	0.04	0.08	0.04	0.54	-0.22	-0.33	-0.29	6777	-3.8
18	O119	A	-1.060	0.039	0.85	0.54	0.005	0.85	0.03	0.08	0.04	0.54	-0.21	-0.34	-0.27	6730	-3.1
19	O119	A	-1.060	0.038	0.86	0.55	0.002	0.86	0.03	0.07	0.03	0.55	-0.24	-0.35	-0.27	6734	-8.0
20	O119	A	-1.060	0.039	0.85	0.56	0.005	0.85	0.04	0.07	0.03	0.56	-0.26	-0.34	-0.25	6707	-4.7
1	O120	D	-0.161	0.029	0.70	0.50	0.018	0.15	0.09	0.04	0.70	-0.14	-0.26	-0.25	0.50	7273	1.1
2	O120	D	-0.161	0.031	0.75	0.42	0.003	0.13	0.08	0.03	0.75	-0.16	-0.26	-0.28	0.42	6810	1.4
3	O120	D	-0.161	0.031	0.75	0.43	0.005	0.14	0.07	0.03	0.75	-0.16	-0.25	-0.30	0.43	6803	1.3
4	O120	D	-0.161	0.031	0.73	0.41	0.004	0.16	0.08	0.03	0.73	-0.16	-0.27	-0.25	0.41	6785	4.8
5	O120	D	-0.161	0.031	0.76	0.42	0.002	0.14	0.07	0.03	0.76	-0.17	-0.25	-0.28	0.42	6770	1.1
6	O120	D	-0.161	0.031	0.74	0.45	0.005	0.15	0.07	0.04	0.74	-0.16	-0.28	-0.29	0.45	6774	4.0
7	O120	D	-0.161	0.031	0.76	0.41	0.004	0.14	0.07	0.03	0.76	-0.14	-0.29	-0.25	0.41	6783	1.1
8	O120	D	-0.161	0.031	0.74	0.39	0.003	0.15	0.08	0.03	0.74	-0.13	-0.27	-0.26	0.39	6819	4.9
9	O120	D	-0.161	0.031	0.74	0.40	0.004	0.14	0.08	0.03	0.74	-0.15	-0.26	-0.25	0.40	6795	4.0
10	O120	D	-0.161	0.031	0.75	0.42	0.003	0.14	0.07	0.03	0.75	-0.16	-0.26	-0.28	0.42	6790	1.2
11	O120	D	-0.161	0.031	0.74	0.42	0.003	0.15	0.08	0.04	0.74	-0.17	-0.26	-0.26	0.42	6791	2.7
12	O120	D	-0.161	0.031	0.75	0.42	0.004	0.14	0.08	0.03	0.75	-0.14	-0.27	-0.27	0.42	6773	3.9
13	O120	D	-0.161	0.031	0.75	0.42	0.003	0.15	0.07	0.03	0.75	-0.16	-0.27	-0.27	0.42	6771	3.5
14	O120	D	-0.161	0.031	0.74	0.41	0.005	0.15	0.08	0.03	0.74	-0.13	-0.26	-0.28	0.41	6769	6.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O120	D	-0.161	0.031	0.76	0.42	0.003	0.14	0.07	0.03	0.76	-0.17	-0.26	-0.28	0.42	6750	2.1
16	O120	D	-0.161	0.031	0.74	0.41	0.005	0.15	0.07	0.03	0.74	-0.14	-0.26	-0.26	0.41	6758	3.4
17	O120	D	-0.161	0.032	0.75	0.42	0.003	0.15	0.07	0.03	0.75	-0.18	-0.26	-0.25	0.42	6777	5.2
18	O120	D	-0.161	0.032	0.74	0.42	0.005	0.15	0.08	0.03	0.74	-0.15	-0.26	-0.27	0.42	6730	5.9
19	O120	D	-0.161	0.031	0.74	0.41	0.002	0.15	0.08	0.03	0.74	-0.13	-0.26	-0.29	0.41	6734	5.5
20	O120	D	-0.161	0.032	0.75	0.44	0.005	0.14	0.07	0.03	0.75	-0.17	-0.26	-0.27	0.44	6707	3.4
1	O121	C	0.768	0.027	0.59	0.27	0.019	0.16	0.17	0.59	0.07	-0.19	0.02	0.27	-0.06	7273	9.9
2	O121	C	0.768	0.027	0.58	0.23	0.003	0.18	0.19	0.58	0.05	-0.23	0.01	0.23	-0.08	6810	9.9
3	O121	C	0.768	0.027	0.60	0.24	0.004	0.15	0.18	0.60	0.07	-0.23	0.00	0.24	-0.08	6803	9.9
4	O121	C	0.768	0.027	0.61	0.21	0.004	0.15	0.18	0.61	0.06	-0.23	0.01	0.21	-0.06	6785	9.9
5	O121	C	0.768	0.027	0.60	0.21	0.004	0.15	0.18	0.60	0.06	-0.22	0.01	0.21	-0.07	6770	9.9
6	O121	C	0.768	0.028	0.60	0.23	0.005	0.15	0.18	0.60	0.07	-0.21	-0.01	0.23	-0.07	6774	9.9
7	O121	C	0.768	0.027	0.60	0.24	0.004	0.15	0.19	0.60	0.06	-0.25	-0.01	0.24	-0.07	6783	9.9
8	O121	C	0.768	0.027	0.60	0.22	0.003	0.15	0.19	0.60	0.06	-0.25	0.01	0.22	-0.06	6819	9.9
9	O121	C	0.768	0.027	0.60	0.21	0.004	0.15	0.19	0.60	0.06	-0.23	0.00	0.21	-0.05	6795	9.9
10	O121	C	0.768	0.028	0.59	0.22	0.004	0.15	0.19	0.59	0.07	-0.23	0.01	0.22	-0.07	6790	9.9
11	O121	C	0.768	0.027	0.61	0.23	0.004	0.15	0.17	0.61	0.06	-0.24	-0.00	0.23	-0.06	6791	9.9
12	O121	C	0.768	0.028	0.60	0.21	0.005	0.15	0.19	0.60	0.06	-0.21	0.02	0.21	-0.08	6773	9.9
13	O121	C	0.768	0.028	0.60	0.22	0.003	0.16	0.18	0.60	0.06	-0.24	0.01	0.22	-0.06	6771	9.9
14	O121	C	0.768	0.028	0.61	0.22	0.004	0.15	0.17	0.61	0.07	-0.24	0.02	0.22	-0.07	6769	9.9
15	O121	C	0.768	0.028	0.61	0.21	0.003	0.15	0.18	0.61	0.06	-0.22	-0.01	0.21	-0.05	6750	9.9
16	O121	C	0.768	0.027	0.57	0.21	0.006	0.17	0.19	0.57	0.06	-0.24	0.05	0.21	-0.07	6758	9.9
17	O121	C	0.768	0.028	0.59	0.19	0.003	0.14	0.20	0.59	0.07	-0.23	0.01	0.19	-0.04	6777	9.9
18	O121	C	0.768	0.028	0.60	0.23	0.006	0.15	0.18	0.60	0.06	-0.22	0.00	0.23	-0.07	6730	9.9
19	O121	C	0.768	0.028	0.60	0.21	0.003	0.15	0.19	0.60	0.07	-0.23	0.02	0.21	-0.08	6734	9.9
20	O121	C	0.768	0.028	0.60	0.21	0.005	0.14	0.19	0.60	0.06	-0.21	-0.01	0.21	-0.06	6707	9.9
1	O122	A	-1.404	0.038	0.85	0.53	0.018	0.85	0.06	0.03	0.05	0.53	-0.16	-0.27	-0.26	7273	-1.3
2	O122	A	-1.404	0.042	0.88	0.43	0.003	0.88	0.06	0.02	0.04	0.43	-0.17	-0.28	-0.27	6810	2.0
3	O122	A	-1.404	0.041	0.89	0.45	0.004	0.89	0.05	0.02	0.04	0.45	-0.17	-0.28	-0.29	6803	0.1
4	O122	A	-1.404	0.041	0.89	0.44	0.004	0.89	0.05	0.02	0.04	0.44	-0.18	-0.27	-0.27	6785	-1.4
5	O122	A	-1.404	0.042	0.89	0.44	0.003	0.89	0.05	0.02	0.04	0.44	-0.17	-0.26	-0.29	6770	-1.3
6	O122	A	-1.404	0.043	0.88	0.49	0.005	0.88	0.05	0.02	0.04	0.49	-0.18	-0.27	-0.31	6774	-0.1
7	O122	A	-1.404	0.041	0.89	0.44	0.004	0.89	0.05	0.02	0.04	0.44	-0.17	-0.24	-0.29	6783	0.1
8	O122	A	-1.404	0.041	0.89	0.45	0.003	0.89	0.05	0.02	0.04	0.45	-0.19	-0.26	-0.28	6819	-1.9
9	O122	A	-1.404	0.042	0.89	0.45	0.003	0.89	0.05	0.02	0.04	0.45	-0.16	-0.27	-0.31	6795	-0.6
10	O122	A	-1.404	0.041	0.89	0.45	0.003	0.89	0.05	0.02	0.04	0.45	-0.18	-0.25	-0.31	6790	-0.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O122	A	-1.404	0.041	0.89	0.44	0.004	0.89	0.05	0.02	0.04	0.44	-0.18	-0.27	-0.27	6791	-1.4
12	O122	A	-1.404	0.042	0.89	0.44	0.005	0.89	0.05	0.02	0.04	0.44	-0.18	-0.25	-0.26	6773	-0.8
13	O122	A	-1.404	0.042	0.89	0.43	0.004	0.89	0.05	0.02	0.04	0.43	-0.15	-0.28	-0.28	6771	0.5
14	O122	A	-1.404	0.042	0.89	0.45	0.003	0.89	0.05	0.02	0.04	0.45	-0.16	-0.26	-0.31	6769	-0.2
15	O122	A	-1.404	0.042	0.90	0.44	0.003	0.90	0.05	0.02	0.04	0.44	-0.17	-0.25	-0.32	6750	-0.1
16	O122	A	-1.404	0.042	0.88	0.44	0.004	0.88	0.05	0.02	0.04	0.44	-0.16	-0.27	-0.27	6758	1.3
17	O122	A	-1.404	0.043	0.88	0.42	0.003	0.88	0.05	0.02	0.04	0.42	-0.16	-0.27	-0.29	6777	2.8
18	O122	A	-1.404	0.043	0.90	0.44	0.005	0.90	0.04	0.02	0.04	0.44	-0.16	-0.24	-0.28	6730	-0.2
19	O122	A	-1.404	0.042	0.89	0.42	0.003	0.89	0.05	0.02	0.04	0.42	-0.16	-0.26	-0.28	6734	0.9
20	O122	A	-1.404	0.043	0.89	0.48	0.005	0.89	0.05	0.02	0.04	0.48	-0.19	-0.28	-0.28	6707	-0.2
1	O123	D	-0.061	0.029	0.68	0.58	0.019	0.11	0.12	0.07	0.68	-0.20	-0.28	-0.23	0.58	7273	-7.7
2	O123	D	-0.061	0.030	0.73	0.56	0.004	0.10	0.10	0.06	0.73	-0.23	-0.34	-0.29	0.56	6810	-9.4
3	O123	D	-0.061	0.030	0.73	0.57	0.004	0.10	0.11	0.06	0.73	-0.24	-0.34	-0.28	0.57	6803	-9.4
4	O123	D	-0.061	0.030	0.73	0.57	0.004	0.10	0.11	0.06	0.73	-0.24	-0.35	-0.25	0.57	6785	-9.6
5	O123	D	-0.061	0.030	0.73	0.54	0.003	0.10	0.10	0.07	0.73	-0.23	-0.31	-0.28	0.54	6770	-8.8
6	O123	D	-0.061	0.031	0.72	0.55	0.004	0.11	0.11	0.06	0.72	-0.21	-0.34	-0.26	0.55	6774	-5.6
7	O123	D	-0.061	0.030	0.73	0.57	0.004	0.09	0.10	0.07	0.73	-0.22	-0.35	-0.27	0.57	6783	-9.9
8	O123	D	-0.061	0.030	0.74	0.56	0.004	0.10	0.11	0.06	0.74	-0.22	-0.37	-0.26	0.56	6819	-9.9
9	O123	D	-0.061	0.030	0.72	0.54	0.004	0.10	0.11	0.07	0.72	-0.22	-0.32	-0.27	0.54	6795	-6.5
10	O123	D	-0.061	0.030	0.73	0.56	0.003	0.10	0.11	0.06	0.73	-0.23	-0.33	-0.27	0.56	6790	-8.2
11	O123	D	-0.061	0.030	0.73	0.54	0.004	0.10	0.11	0.06	0.73	-0.22	-0.32	-0.29	0.54	6791	-7.9
12	O123	D	-0.061	0.030	0.73	0.56	0.005	0.10	0.11	0.06	0.73	-0.23	-0.33	-0.27	0.56	6773	-8.7
13	O123	D	-0.061	0.030	0.75	0.58	0.003	0.09	0.10	0.06	0.75	-0.24	-0.35	-0.29	0.58	6771	-9.9
14	O123	D	-0.061	0.031	0.72	0.56	0.004	0.10	0.11	0.07	0.72	-0.22	-0.34	-0.26	0.56	6769	-6.7
15	O123	D	-0.061	0.031	0.74	0.56	0.004	0.10	0.10	0.06	0.74	-0.24	-0.33	-0.28	0.56	6750	-9.1
16	O123	D	-0.061	0.030	0.75	0.58	0.005	0.09	0.10	0.06	0.75	-0.24	-0.34	-0.28	0.58	6758	-9.9
17	O123	D	-0.061	0.031	0.73	0.57	0.003	0.10	0.10	0.06	0.73	-0.24	-0.34	-0.28	0.57	6777	-6.5
18	O123	D	-0.061	0.031	0.72	0.53	0.005	0.10	0.11	0.07	0.72	-0.20	-0.30	-0.27	0.53	6730	-2.8
19	O123	D	-0.061	0.031	0.71	0.55	0.003	0.11	0.11	0.07	0.71	-0.20	-0.34	-0.28	0.55	6734	-4.7
20	O123	D	-0.061	0.031	0.73	0.55	0.005	0.10	0.10	0.07	0.73	-0.20	-0.33	-0.28	0.55	6707	-6.0
1	O124	B	-0.111	0.029	0.70	0.41	0.019	0.04	0.70	0.09	0.15	-0.21	0.41	-0.24	-0.08	7273	9.2
2	O124	B	-0.111	0.031	0.74	0.35	0.004	0.03	0.74	0.10	0.13	-0.19	0.35	-0.28	-0.08	6810	9.6
3	O124	B	-0.111	0.030	0.72	0.37	0.005	0.03	0.72	0.10	0.15	-0.20	0.37	-0.26	-0.12	6803	9.9
4	O124	B	-0.111	0.031	0.73	0.34	0.005	0.03	0.73	0.09	0.15	-0.18	0.34	-0.26	-0.10	6785	9.7
5	O124	B	-0.111	0.031	0.73	0.34	0.005	0.03	0.73	0.10	0.15	-0.21	0.34	-0.27	-0.09	6770	9.9
6	O124	B	-0.111	0.031	0.75	0.36	0.005	0.03	0.75	0.09	0.13	-0.18	0.36	-0.26	-0.11	6774	7.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O124	B	-0.111	0.030	0.75	0.36	0.005	0.03	0.75	0.09	0.13	-0.17	0.36	-0.24	-0.13	6783	4.0
8	O124	B	-0.111	0.030	0.74	0.35	0.005	0.03	0.74	0.09	0.14	-0.20	0.35	-0.27	-0.11	6819	8.1
9	O124	B	-0.111	0.031	0.73	0.32	0.005	0.03	0.73	0.09	0.15	-0.17	0.32	-0.23	-0.12	6795	9.9
10	O124	B	-0.111	0.031	0.73	0.36	0.004	0.03	0.73	0.10	0.14	-0.22	0.36	-0.26	-0.10	6790	9.9
11	O124	B	-0.111	0.030	0.75	0.35	0.005	0.03	0.75	0.08	0.14	-0.22	0.35	-0.26	-0.11	6791	6.8
12	O124	B	-0.111	0.031	0.74	0.37	0.006	0.03	0.74	0.10	0.13	-0.20	0.37	-0.26	-0.12	6773	7.4
13	O124	B	-0.111	0.031	0.75	0.34	0.004	0.03	0.75	0.08	0.13	-0.18	0.34	-0.24	-0.11	6771	7.9
14	O124	B	-0.111	0.031	0.73	0.35	0.007	0.03	0.73	0.09	0.15	-0.18	0.35	-0.24	-0.12	6769	9.9
15	O124	B	-0.111	0.031	0.74	0.34	0.004	0.03	0.74	0.09	0.14	-0.21	0.34	-0.26	-0.09	6750	9.9
16	O124	B	-0.111	0.031	0.77	0.39	0.006	0.03	0.77	0.08	0.12	-0.21	0.39	-0.26	-0.13	6758	2.9
17	O124	B	-0.111	0.031	0.73	0.35	0.005	0.03	0.73	0.09	0.14	-0.16	0.35	-0.28	-0.12	6777	9.9
18	O124	B	-0.111	0.031	0.74	0.35	0.006	0.03	0.74	0.09	0.14	-0.18	0.35	-0.27	-0.09	6730	9.9
19	O124	B	-0.111	0.031	0.73	0.34	0.004	0.03	0.73	0.09	0.15	-0.19	0.34	-0.27	-0.09	6734	9.9
20	O124	B	-0.111	0.031	0.74	0.37	0.006	0.03	0.74	0.09	0.14	-0.21	0.37	-0.27	-0.10	6707	8.4
1	O126	D	-0.117	0.029	0.70	0.51	0.019	0.03	0.08	0.16	0.70	-0.24	-0.30	-0.14	0.51	7273	-1.1
2	O126	D	-0.117	0.031	0.74	0.48	0.004	0.03	0.08	0.15	0.74	-0.28	-0.31	-0.20	0.48	6810	-2.5
3	O126	D	-0.117	0.030	0.74	0.47	0.005	0.03	0.07	0.15	0.74	-0.24	-0.33	-0.19	0.47	6803	-2.8
4	O126	D	-0.117	0.031	0.73	0.46	0.005	0.03	0.07	0.16	0.73	-0.28	-0.28	-0.20	0.46	6785	-0.9
5	O126	D	-0.117	0.031	0.74	0.46	0.005	0.03	0.07	0.15	0.74	-0.27	-0.31	-0.17	0.46	6770	-2.1
6	O126	D	-0.117	0.031	0.74	0.46	0.006	0.03	0.07	0.16	0.74	-0.28	-0.30	-0.17	0.46	6774	1.0
7	O126	D	-0.117	0.030	0.74	0.45	0.005	0.03	0.07	0.15	0.74	-0.27	-0.30	-0.17	0.45	6783	-1.0
8	O126	D	-0.117	0.030	0.75	0.48	0.004	0.03	0.07	0.16	0.75	-0.27	-0.31	-0.22	0.48	6819	-3.9
9	O126	D	-0.117	0.031	0.75	0.45	0.004	0.02	0.07	0.16	0.75	-0.23	-0.33	-0.19	0.45	6795	-0.1
10	O126	D	-0.117	0.031	0.73	0.46	0.005	0.03	0.08	0.16	0.73	-0.27	-0.31	-0.18	0.46	6790	0.8
11	O126	D	-0.117	0.030	0.73	0.46	0.005	0.02	0.08	0.16	0.73	-0.21	-0.32	-0.20	0.46	6791	-0.9
12	O126	D	-0.117	0.031	0.73	0.46	0.006	0.03	0.07	0.16	0.73	-0.26	-0.29	-0.18	0.46	6773	0.1
13	O126	D	-0.117	0.031	0.74	0.46	0.005	0.03	0.07	0.15	0.74	-0.26	-0.31	-0.17	0.46	6771	-0.3
14	O126	D	-0.117	0.031	0.75	0.45	0.005	0.03	0.07	0.15	0.75	-0.28	-0.28	-0.17	0.45	6769	-1.1
15	O126	D	-0.117	0.031	0.74	0.44	0.003	0.03	0.07	0.16	0.74	-0.30	-0.31	-0.16	0.44	6750	0.6
16	O126	D	-0.117	0.031	0.75	0.45	0.006	0.03	0.06	0.16	0.75	-0.22	-0.28	-0.19	0.45	6758	-0.4
17	O126	D	-0.117	0.031	0.74	0.46	0.004	0.03	0.07	0.16	0.74	-0.26	-0.29	-0.21	0.46	6777	2.2
18	O126	D	-0.117	0.032	0.75	0.46	0.006	0.03	0.07	0.15	0.75	-0.26	-0.28	-0.20	0.46	6730	-0.0
19	O126	D	-0.117	0.031	0.73	0.46	0.003	0.03	0.07	0.17	0.73	-0.26	-0.32	-0.19	0.46	6734	1.1
20	O126	D	-0.117	0.031	0.73	0.46	0.005	0.03	0.07	0.17	0.73	-0.25	-0.31	-0.19	0.46	6707	1.8
1	O127	B	0.175	0.028	0.67	0.44	0.020	0.17	0.67	0.11	0.03	-0.13	0.44	-0.20	-0.23	7273	5.2
2	O127	B	0.175	0.029	0.69	0.38	0.004	0.17	0.69	0.10	0.03	-0.16	0.38	-0.23	-0.20	6810	6.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O127	B	0.175	0.029	0.69	0.36	0.006	0.18	0.69	0.10	0.02	-0.14	0.36	-0.23	-0.20	6803	7.1
4	O127	B	0.175	0.029	0.68	0.37	0.006	0.18	0.68	0.11	0.03	-0.14	0.37	-0.24	-0.18	6785	9.2
5	O127	B	0.175	0.029	0.70	0.37	0.005	0.18	0.70	0.10	0.03	-0.15	0.37	-0.23	-0.23	6770	5.0
6	O127	B	0.175	0.030	0.70	0.39	0.007	0.17	0.70	0.10	0.03	-0.15	0.39	-0.23	-0.21	6774	6.9
7	O127	B	0.175	0.029	0.69	0.40	0.005	0.17	0.69	0.11	0.02	-0.17	0.40	-0.25	-0.21	6783	4.2
8	O127	B	0.175	0.029	0.69	0.40	0.004	0.18	0.69	0.10	0.02	-0.19	0.40	-0.24	-0.20	6819	4.4
9	O127	B	0.175	0.029	0.69	0.37	0.004	0.18	0.69	0.11	0.02	-0.15	0.37	-0.23	-0.20	6795	7.1
10	O127	B	0.175	0.029	0.68	0.40	0.005	0.18	0.68	0.11	0.03	-0.16	0.40	-0.24	-0.23	6790	5.8
11	O127	B	0.175	0.029	0.69	0.38	0.005	0.18	0.69	0.10	0.02	-0.17	0.38	-0.22	-0.20	6791	6.8
12	O127	B	0.175	0.029	0.69	0.38	0.006	0.17	0.69	0.11	0.03	-0.14	0.38	-0.24	-0.21	6773	7.2
13	O127	B	0.175	0.029	0.70	0.39	0.005	0.17	0.70	0.11	0.02	-0.15	0.39	-0.25	-0.19	6771	5.3
14	O127	B	0.175	0.029	0.70	0.39	0.005	0.17	0.70	0.11	0.03	-0.15	0.39	-0.25	-0.20	6769	5.9
15	O127	B	0.175	0.030	0.69	0.37	0.004	0.18	0.69	0.11	0.02	-0.15	0.37	-0.25	-0.20	6750	7.5
16	O127	B	0.175	0.029	0.70	0.40	0.006	0.17	0.70	0.10	0.02	-0.16	0.40	-0.26	-0.18	6758	5.1
17	O127	B	0.175	0.030	0.69	0.38	0.004	0.18	0.69	0.10	0.03	-0.16	0.38	-0.24	-0.20	6777	8.1
18	O127	B	0.175	0.030	0.70	0.38	0.006	0.17	0.70	0.10	0.02	-0.15	0.38	-0.23	-0.20	6730	8.1
19	O127	B	0.175	0.029	0.70	0.37	0.004	0.18	0.70	0.10	0.02	-0.15	0.37	-0.23	-0.20	6734	7.0
20	O127	B	0.175	0.030	0.70	0.38	0.005	0.17	0.70	0.10	0.02	-0.16	0.38	-0.22	-0.20	6707	7.3
1	O128	B	2.066	0.028	0.33	0.30	0.021	0.35	0.33	0.20	0.11	-0.07	0.30	-0.09	-0.06	7273	9.9
2	O128	B	2.066	0.028	0.34	0.30	0.005	0.35	0.34	0.20	0.11	-0.11	0.30	-0.14	-0.07	6810	9.9
3	O128	B	2.066	0.028	0.34	0.30	0.007	0.34	0.34	0.21	0.11	-0.10	0.30	-0.14	-0.08	6803	9.9
4	O128	B	2.066	0.028	0.34	0.27	0.007	0.35	0.34	0.19	0.10	-0.11	0.27	-0.10	-0.08	6785	9.9
5	O128	B	2.066	0.028	0.35	0.29	0.005	0.35	0.35	0.19	0.11	-0.12	0.29	-0.13	-0.07	6770	9.9
6	O128	B	2.066	0.028	0.35	0.29	0.008	0.34	0.35	0.20	0.11	-0.11	0.29	-0.11	-0.08	6774	9.9
7	O128	B	2.066	0.028	0.33	0.28	0.006	0.34	0.33	0.21	0.11	-0.09	0.28	-0.13	-0.07	6783	9.9
8	O128	B	2.066	0.028	0.33	0.29	0.005	0.35	0.33	0.21	0.10	-0.11	0.29	-0.12	-0.09	6819	9.9
9	O128	B	2.066	0.028	0.34	0.29	0.005	0.35	0.34	0.19	0.11	-0.12	0.29	-0.13	-0.06	6795	9.9
10	O128	B	2.066	0.028	0.36	0.29	0.007	0.34	0.36	0.19	0.11	-0.11	0.29	-0.12	-0.09	6790	9.9
11	O128	B	2.066	0.028	0.35	0.30	0.006	0.33	0.35	0.21	0.11	-0.11	0.30	-0.13	-0.09	6791	9.9
12	O128	B	2.066	0.028	0.34	0.27	0.007	0.35	0.34	0.19	0.10	-0.10	0.27	-0.12	-0.05	6773	9.9
13	O128	B	2.066	0.028	0.34	0.29	0.006	0.35	0.34	0.20	0.11	-0.11	0.29	-0.12	-0.07	6771	9.9
14	O128	B	2.066	0.028	0.35	0.31	0.005	0.34	0.35	0.20	0.11	-0.11	0.31	-0.13	-0.09	6769	9.9
15	O128	B	2.066	0.028	0.35	0.27	0.004	0.35	0.35	0.19	0.12	-0.08	0.27	-0.14	-0.08	6750	9.9
16	O128	B	2.066	0.028	0.35	0.29	0.008	0.34	0.35	0.20	0.11	-0.10	0.29	-0.11	-0.09	6758	9.9
17	O128	B	2.066	0.028	0.35	0.32	0.005	0.33	0.35	0.20	0.12	-0.12	0.32	-0.15	-0.08	6777	9.9
18	O128	B	2.066	0.028	0.35	0.29	0.008	0.34	0.35	0.19	0.11	-0.09	0.29	-0.15	-0.06	6730	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O128	B	2.066	0.028	0.35	0.29	0.005	0.35	0.35	0.19	0.11	-0.11	0.29	-0.13	-0.07	6734	9.9
20	O128	B	2.066	0.028	0.34	0.26	0.006	0.36	0.34	0.19	0.11	-0.08	0.26	-0.12	-0.06	6707	9.9
1	O129	B	-0.660	0.032	0.79	0.55	0.020	0.08	0.79	0.05	0.06	-0.23	0.55	-0.23	-0.23	7273	-7.2
2	O129	B	-0.660	0.034	0.82	0.51	0.005	0.07	0.82	0.05	0.06	-0.26	0.51	-0.27	-0.27	6810	-6.0
3	O129	B	-0.660	0.034	0.81	0.51	0.006	0.08	0.81	0.05	0.06	-0.26	0.51	-0.24	-0.28	6803	-4.5
4	O129	B	-0.660	0.034	0.81	0.51	0.006	0.09	0.81	0.04	0.06	-0.30	0.51	-0.24	-0.23	6785	-5.0
5	O129	B	-0.660	0.034	0.81	0.50	0.005	0.08	0.81	0.05	0.06	-0.26	0.50	-0.24	-0.27	6770	-3.5
6	O129	B	-0.660	0.035	0.82	0.51	0.006	0.07	0.82	0.05	0.06	-0.25	0.51	-0.26	-0.25	6774	-3.6
7	O129	B	-0.660	0.034	0.81	0.51	0.005	0.09	0.81	0.05	0.06	-0.26	0.51	-0.25	-0.28	6783	-5.2
8	O129	B	-0.660	0.034	0.81	0.51	0.004	0.08	0.81	0.05	0.06	-0.27	0.51	-0.26	-0.26	6819	-6.2
9	O129	B	-0.660	0.034	0.82	0.51	0.005	0.08	0.82	0.05	0.06	-0.27	0.51	-0.25	-0.27	6795	-4.3
10	O129	B	-0.660	0.034	0.81	0.49	0.005	0.08	0.81	0.04	0.05	-0.25	0.49	-0.26	-0.25	6790	-4.5
11	O129	B	-0.660	0.034	0.81	0.51	0.005	0.08	0.81	0.05	0.06	-0.26	0.51	-0.25	-0.27	6791	-5.0
12	O129	B	-0.660	0.034	0.81	0.52	0.006	0.08	0.81	0.05	0.06	-0.28	0.52	-0.24	-0.25	6773	-4.2
13	O129	B	-0.660	0.034	0.82	0.51	0.005	0.07	0.82	0.05	0.06	-0.26	0.51	-0.25	-0.27	6771	-5.7
14	O129	B	-0.660	0.034	0.81	0.51	0.005	0.08	0.81	0.05	0.06	-0.26	0.51	-0.26	-0.26	6769	-4.5
15	O129	B	-0.660	0.035	0.81	0.49	0.004	0.08	0.81	0.04	0.06	-0.26	0.49	-0.25	-0.25	6750	-3.1
16	O129	B	-0.660	0.034	0.82	0.50	0.006	0.08	0.82	0.04	0.05	-0.24	0.50	-0.27	-0.25	6758	-5.0
17	O129	B	-0.660	0.035	0.83	0.52	0.005	0.08	0.83	0.04	0.05	-0.29	0.52	-0.24	-0.28	6777	-6.0
18	O129	B	-0.660	0.035	0.82	0.52	0.006	0.08	0.82	0.04	0.06	-0.28	0.52	-0.25	-0.24	6730	-5.0
19	O129	B	-0.660	0.035	0.81	0.49	0.004	0.08	0.81	0.05	0.06	-0.25	0.49	-0.25	-0.26	6734	-4.2
20	O129	B	-0.660	0.035	0.82	0.50	0.005	0.08	0.82	0.04	0.05	-0.26	0.50	-0.22	-0.26	6707	-3.7
1	O130	A	1.385	0.027	0.44	0.39	0.020	0.44	0.13	0.24	0.17	0.39	-0.12	-0.20	-0.04	7273	9.9
2	O130	A	1.385	0.027	0.46	0.36	0.005	0.46	0.13	0.23	0.17	0.36	-0.15	-0.20	-0.09	6810	9.9
3	O130	A	1.385	0.027	0.46	0.39	0.006	0.46	0.13	0.23	0.17	0.39	-0.16	-0.22	-0.08	6803	8.4
4	O130	A	1.385	0.027	0.47	0.38	0.006	0.47	0.13	0.22	0.18	0.38	-0.15	-0.24	-0.07	6785	9.9
5	O130	A	1.385	0.027	0.46	0.39	0.005	0.46	0.13	0.24	0.18	0.39	-0.14	-0.24	-0.08	6770	8.4
6	O130	A	1.385	0.027	0.47	0.38	0.007	0.47	0.13	0.22	0.18	0.38	-0.16	-0.24	-0.05	6774	9.0
7	O130	A	1.385	0.027	0.46	0.38	0.005	0.46	0.13	0.22	0.20	0.38	-0.15	-0.25	-0.05	6783	8.6
8	O130	A	1.385	0.027	0.46	0.38	0.005	0.46	0.14	0.23	0.17	0.38	-0.16	-0.22	-0.09	6819	9.3
9	O130	A	1.385	0.027	0.45	0.37	0.005	0.45	0.14	0.24	0.17	0.37	-0.15	-0.22	-0.07	6795	9.9
10	O130	A	1.385	0.027	0.47	0.39	0.005	0.47	0.13	0.22	0.17	0.39	-0.16	-0.25	-0.05	6790	9.6
11	O130	A	1.385	0.027	0.48	0.39	0.006	0.48	0.13	0.21	0.17	0.39	-0.14	-0.26	-0.08	6791	8.5
12	O130	A	1.385	0.027	0.46	0.39	0.006	0.46	0.13	0.22	0.18	0.39	-0.16	-0.23	-0.08	6773	8.2
13	O130	A	1.385	0.027	0.47	0.39	0.005	0.47	0.12	0.22	0.18	0.39	-0.15	-0.22	-0.10	6771	8.5
14	O130	A	1.385	0.027	0.46	0.36	0.005	0.46	0.13	0.23	0.17	0.36	-0.13	-0.22	-0.08	6769	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O130	A	1.385	0.027	0.46	0.38	0.004	0.46	0.13	0.23	0.18	0.38	-0.13	-0.23	-0.10	6750	8.4
16	O130	A	1.385	0.027	0.47	0.37	0.007	0.47	0.13	0.22	0.18	0.37	-0.13	-0.22	-0.08	6758	9.7
17	O130	A	1.385	0.027	0.47	0.39	0.005	0.47	0.13	0.24	0.17	0.39	-0.17	-0.24	-0.07	6777	8.2
18	O130	A	1.385	0.027	0.47	0.36	0.007	0.47	0.12	0.22	0.18	0.36	-0.12	-0.20	-0.09	6730	9.9
19	O130	A	1.385	0.027	0.47	0.38	0.005	0.47	0.14	0.22	0.17	0.38	-0.16	-0.23	-0.07	6734	7.8
20	O130	A	1.385	0.027	0.48	0.37	0.005	0.48	0.12	0.22	0.17	0.37	-0.15	-0.22	-0.08	6707	9.9
1	O131	D	-0.329	0.030	0.73	0.54	0.020	0.06	0.09	0.10	0.73	-0.26	-0.22	-0.19	0.54	7273	-3.5
2	O131	D	-0.329	0.032	0.77	0.50	0.005	0.05	0.09	0.09	0.77	-0.27	-0.25	-0.25	0.50	6810	-4.0
3	O131	D	-0.329	0.032	0.76	0.49	0.006	0.05	0.09	0.10	0.76	-0.30	-0.24	-0.22	0.49	6803	-2.8
4	O131	D	-0.329	0.032	0.76	0.49	0.007	0.05	0.09	0.09	0.76	-0.29	-0.23	-0.22	0.49	6785	-2.8
5	O131	D	-0.329	0.032	0.77	0.49	0.006	0.05	0.09	0.09	0.77	-0.28	-0.25	-0.23	0.49	6770	-4.6
6	O131	D	-0.329	0.032	0.76	0.51	0.008	0.06	0.09	0.09	0.76	-0.30	-0.24	-0.22	0.51	6774	-1.1
7	O131	D	-0.329	0.031	0.77	0.49	0.006	0.05	0.08	0.09	0.77	-0.30	-0.24	-0.22	0.49	6783	-5.7
8	O131	D	-0.329	0.032	0.77	0.49	0.004	0.05	0.09	0.09	0.77	-0.27	-0.25	-0.24	0.49	6819	-4.3
9	O131	D	-0.329	0.032	0.77	0.47	0.005	0.05	0.08	0.09	0.77	-0.28	-0.25	-0.21	0.47	6795	-2.5
10	O131	D	-0.329	0.032	0.77	0.50	0.005	0.05	0.08	0.09	0.77	-0.30	-0.26	-0.22	0.50	6790	-5.1
11	O131	D	-0.329	0.032	0.77	0.51	0.006	0.06	0.08	0.09	0.77	-0.30	-0.25	-0.22	0.51	6791	-5.0
12	O131	D	-0.329	0.032	0.76	0.49	0.006	0.05	0.09	0.10	0.76	-0.29	-0.24	-0.21	0.49	6773	-2.1
13	O131	D	-0.329	0.032	0.78	0.49	0.006	0.05	0.09	0.08	0.78	-0.30	-0.26	-0.19	0.49	6771	-3.3
14	O131	D	-0.329	0.032	0.76	0.50	0.006	0.05	0.09	0.09	0.76	-0.30	-0.24	-0.23	0.50	6769	-2.6
15	O131	D	-0.329	0.032	0.78	0.49	0.004	0.05	0.09	0.08	0.78	-0.28	-0.27	-0.22	0.49	6750	-5.7
16	O131	D	-0.329	0.032	0.77	0.50	0.007	0.05	0.08	0.09	0.77	-0.29	-0.24	-0.22	0.50	6758	-5.1
17	O131	D	-0.329	0.033	0.76	0.48	0.004	0.05	0.09	0.09	0.76	-0.27	-0.24	-0.23	0.48	6777	0.3
18	O131	D	-0.329	0.033	0.77	0.49	0.006	0.05	0.08	0.09	0.77	-0.25	-0.23	-0.24	0.49	6730	-1.1
19	O131	D	-0.329	0.032	0.77	0.48	0.005	0.05	0.08	0.09	0.77	-0.28	-0.23	-0.22	0.48	6734	-2.3
20	O131	D	-0.329	0.033	0.76	0.49	0.005	0.05	0.09	0.09	0.76	-0.29	-0.23	-0.22	0.49	6707	-1.3
1	O132	C	0.039	0.028	0.68	0.61	0.021	0.09	0.11	0.68	0.11	-0.28	-0.25	0.61	-0.23	7273	-9.9
2	O132	C	0.039	0.030	0.70	0.60	0.005	0.08	0.11	0.70	0.10	-0.33	-0.29	0.60	-0.27	6810	-9.9
3	O132	C	0.039	0.030	0.70	0.57	0.006	0.08	0.11	0.70	0.10	-0.32	-0.27	0.57	-0.25	6803	-9.5
4	O132	C	0.039	0.030	0.70	0.57	0.008	0.09	0.10	0.70	0.10	-0.35	-0.24	0.57	-0.25	6785	-9.0
5	O132	C	0.039	0.030	0.71	0.57	0.006	0.08	0.11	0.71	0.10	-0.33	-0.27	0.57	-0.26	6770	-9.9
6	O132	C	0.039	0.030	0.69	0.58	0.008	0.08	0.11	0.69	0.11	-0.31	-0.27	0.58	-0.27	6774	-7.6
7	O132	C	0.039	0.030	0.71	0.58	0.006	0.08	0.10	0.71	0.11	-0.33	-0.25	0.58	-0.28	6783	-9.9
8	O132	C	0.039	0.030	0.71	0.58	0.005	0.08	0.11	0.71	0.10	-0.31	-0.28	0.58	-0.28	6819	-9.9
9	O132	C	0.039	0.030	0.71	0.57	0.005	0.08	0.11	0.71	0.10	-0.32	-0.28	0.57	-0.26	6795	-9.9
10	O132	C	0.039	0.030	0.70	0.58	0.006	0.09	0.11	0.70	0.10	-0.35	-0.27	0.58	-0.25	6790	-9.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O132	C	0.039	0.030	0.70	0.58	0.006	0.09	0.11	0.70	0.10	-0.33	-0.27	0.58	-0.26	6791	-9.8
12	O132	C	0.039	0.030	0.70	0.58	0.008	0.08	0.11	0.70	0.11	-0.33	-0.28	0.58	-0.25	6773	-8.4
13	O132	C	0.039	0.030	0.71	0.58	0.005	0.08	0.11	0.71	0.10	-0.31	-0.27	0.58	-0.28	6771	-9.9
14	O132	C	0.039	0.030	0.71	0.59	0.006	0.08	0.11	0.71	0.10	-0.33	-0.28	0.59	-0.27	6769	-9.9
15	O132	C	0.039	0.030	0.71	0.56	0.004	0.08	0.11	0.71	0.10	-0.33	-0.27	0.56	-0.26	6750	-8.8
16	O132	C	0.039	0.030	0.71	0.60	0.007	0.08	0.11	0.71	0.09	-0.33	-0.29	0.60	-0.26	6758	-9.9
17	O132	C	0.039	0.030	0.70	0.57	0.006	0.08	0.11	0.70	0.10	-0.35	-0.25	0.57	-0.26	6777	-6.8
18	O132	C	0.039	0.031	0.71	0.59	0.007	0.08	0.11	0.71	0.09	-0.31	-0.31	0.59	-0.23	6730	-8.2
19	O132	C	0.039	0.030	0.70	0.56	0.005	0.08	0.11	0.70	0.10	-0.32	-0.28	0.56	-0.24	6734	-8.4
20	O132	C	0.039	0.031	0.71	0.58	0.006	0.07	0.11	0.71	0.10	-0.31	-0.27	0.58	-0.26	6707	-9.1

Appendix T:

2005 Common Grade 8 Multiple Choice Statistics for Reading

2005 Common Grade 8 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O025	D	-0.481	0.029	0.73	0.42	0.015	0.12	0.04	0.10	0.73	-0.20	-0.26	-0.08	0.42	7853	9.9
2	O025	D	-0.481	0.030	0.76	0.31	0.004	0.11	0.03	0.09	0.76	-0.18	-0.23	-0.07	0.31	7382	9.9
3	O025	D	-0.481	0.030	0.76	0.34	0.006	0.11	0.03	0.09	0.76	-0.19	-0.25	-0.07	0.34	7363	9.9
4	O025	D	-0.481	0.030	0.77	0.33	0.004	0.11	0.03	0.09	0.77	-0.20	-0.23	-0.09	0.33	7383	9.9
5	O025	D	-0.481	0.030	0.76	0.33	0.004	0.11	0.03	0.09	0.76	-0.20	-0.27	-0.05	0.33	7364	9.9
6	O025	D	-0.481	0.030	0.76	0.34	0.005	0.11	0.03	0.09	0.76	-0.21	-0.23	-0.07	0.34	7361	9.9
7	O025	D	-0.481	0.030	0.77	0.36	0.004	0.11	0.03	0.09	0.77	-0.23	-0.26	-0.08	0.36	7378	9.9
8	O025	D	-0.481	0.030	0.76	0.34	0.004	0.11	0.04	0.09	0.76	-0.21	-0.23	-0.07	0.34	7374	9.1
9	O025	D	-0.481	0.030	0.76	0.35	0.004	0.11	0.04	0.08	0.76	-0.21	-0.27	-0.06	0.35	7385	9.5
10	O025	D	-0.481	0.030	0.77	0.33	0.005	0.11	0.03	0.08	0.77	-0.20	-0.23	-0.07	0.33	7361	8.4
11	O025	D	-0.481	0.030	0.76	0.34	0.005	0.12	0.03	0.09	0.76	-0.21	-0.22	-0.08	0.34	7350	9.9
12	O025	D	-0.481	0.030	0.76	0.34	0.006	0.11	0.03	0.09	0.76	-0.18	-0.27	-0.07	0.34	7341	9.9
13	O025	D	-0.481	0.030	0.76	0.35	0.004	0.12	0.03	0.09	0.76	-0.22	-0.24	-0.08	0.35	7315	9.4
14	O025	D	-0.481	0.030	0.76	0.31	0.005	0.11	0.03	0.10	0.76	-0.20	-0.22	-0.06	0.31	7303	9.9
15	O025	D	-0.481	0.030	0.77	0.34	0.005	0.11	0.03	0.09	0.77	-0.22	-0.24	-0.06	0.34	7292	9.9
16	O025	D	-0.481	0.030	0.76	0.33	0.004	0.11	0.03	0.09	0.76	-0.20	-0.24	-0.07	0.33	7295	9.9
17	O025	D	-0.481	0.031	0.76	0.36	0.004	0.11	0.03	0.09	0.76	-0.23	-0.26	-0.06	0.36	7314	9.9
18	O025	D	-0.481	0.031	0.76	0.34	0.005	0.11	0.03	0.09	0.76	-0.22	-0.24	-0.06	0.34	7287	9.9
19	O025	D	-0.481	0.031	0.77	0.34	0.004	0.11	0.03	0.09	0.77	-0.21	-0.22	-0.08	0.34	7333	9.9
20	O025	D	-0.481	0.031	0.77	0.32	0.004	0.11	0.03	0.08	0.77	-0.20	-0.23	-0.06	0.32	7347	9.9
1	O026	C	-0.771	0.030	0.77	0.46	0.014	0.03	0.11	0.77	0.08	-0.19	-0.22	0.46	-0.16	7853	2.7
2	O026	C	-0.771	0.032	0.80	0.41	0.003	0.02	0.10	0.80	0.08	-0.17	-0.23	0.41	-0.21	7382	1.6
3	O026	C	-0.771	0.032	0.79	0.39	0.006	0.02	0.10	0.79	0.08	-0.17	-0.22	0.39	-0.17	7363	2.9
4	O026	C	-0.771	0.032	0.80	0.41	0.004	0.02	0.10	0.80	0.08	-0.18	-0.24	0.41	-0.19	7383	3.6
5	O026	C	-0.771	0.032	0.79	0.39	0.004	0.02	0.10	0.79	0.08	-0.17	-0.22	0.39	-0.18	7364	3.5
6	O026	C	-0.771	0.032	0.79	0.39	0.005	0.02	0.10	0.79	0.08	-0.15	-0.21	0.39	-0.19	7361	3.3
7	O026	C	-0.771	0.032	0.79	0.38	0.004	0.02	0.10	0.79	0.08	-0.15	-0.22	0.38	-0.18	7378	5.3
8	O026	C	-0.771	0.032	0.80	0.40	0.004	0.02	0.10	0.80	0.08	-0.17	-0.23	0.40	-0.20	7374	1.2
9	O026	C	-0.771	0.032	0.79	0.39	0.004	0.02	0.10	0.79	0.08	-0.16	-0.23	0.39	-0.19	7385	3.6
10	O026	C	-0.771	0.032	0.80	0.40	0.005	0.02	0.10	0.80	0.08	-0.18	-0.22	0.40	-0.19	7361	2.6
11	O026	C	-0.771	0.032	0.80	0.40	0.004	0.02	0.10	0.80	0.07	-0.13	-0.24	0.40	-0.19	7350	2.6
12	O026	C	-0.771	0.032	0.79	0.40	0.005	0.02	0.10	0.79	0.08	-0.17	-0.22	0.40	-0.18	7341	2.2
13	O026	C	-0.771	0.032	0.80	0.42	0.004	0.02	0.10	0.80	0.08	-0.17	-0.25	0.42	-0.19	7315	-0.6
14	O026	C	-0.771	0.032	0.79	0.40	0.005	0.02	0.10	0.79	0.08	-0.18	-0.23	0.40	-0.19	7303	1.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O026	C	-0.771	0.032	0.79	0.40	0.004	0.02	0.10	0.79	0.08	-0.19	-0.21	0.40	-0.21	7292	2.2
16	O026	C	-0.771	0.032	0.80	0.40	0.004	0.02	0.11	0.80	0.07	-0.15	-0.24	0.40	-0.19	7295	3.1
17	O026	C	-0.771	0.034	0.79	0.41	0.005	0.02	0.10	0.79	0.08	-0.17	-0.23	0.41	-0.20	7314	6.2
18	O026	C	-0.771	0.033	0.81	0.41	0.005	0.02	0.10	0.81	0.07	-0.17	-0.25	0.41	-0.18	7287	3.7
19	O026	C	-0.771	0.033	0.80	0.39	0.004	0.02	0.10	0.80	0.08	-0.15	-0.23	0.39	-0.18	7333	7.3
20	O026	C	-0.771	0.034	0.80	0.41	0.004	0.02	0.10	0.80	0.08	-0.16	-0.24	0.41	-0.20	7347	4.7
1	O027	D	-0.850	0.031	0.77	0.56	0.016	0.08	0.05	0.08	0.77	-0.21	-0.29	-0.23	0.56	7853	-4.6
2	O027	D	-0.850	0.032	0.81	0.50	0.005	0.08	0.04	0.07	0.81	-0.19	-0.30	-0.28	0.50	7382	-5.4
3	O027	D	-0.850	0.032	0.80	0.51	0.008	0.08	0.05	0.07	0.80	-0.22	-0.29	-0.25	0.51	7363	-4.6
4	O027	D	-0.850	0.033	0.81	0.49	0.005	0.07	0.04	0.07	0.81	-0.22	-0.27	-0.25	0.49	7383	-3.8
5	O027	D	-0.850	0.032	0.81	0.52	0.005	0.07	0.05	0.07	0.81	-0.22	-0.29	-0.27	0.52	7364	-6.5
6	O027	D	-0.850	0.032	0.80	0.51	0.007	0.07	0.05	0.07	0.80	-0.20	-0.30	-0.26	0.51	7361	-4.2
7	O027	D	-0.850	0.033	0.80	0.52	0.005	0.08	0.05	0.07	0.80	-0.23	-0.31	-0.26	0.52	7378	-3.7
8	O027	D	-0.850	0.032	0.80	0.51	0.006	0.08	0.05	0.07	0.80	-0.23	-0.30	-0.25	0.51	7374	-4.8
9	O027	D	-0.850	0.032	0.81	0.51	0.005	0.08	0.05	0.07	0.81	-0.21	-0.29	-0.27	0.51	7385	-4.8
10	O027	D	-0.850	0.032	0.80	0.50	0.007	0.07	0.05	0.07	0.80	-0.21	-0.30	-0.25	0.50	7361	-4.4
11	O027	D	-0.850	0.033	0.80	0.52	0.006	0.08	0.05	0.07	0.80	-0.20	-0.32	-0.26	0.52	7350	-4.3
12	O027	D	-0.850	0.032	0.80	0.51	0.007	0.07	0.04	0.07	0.80	-0.21	-0.27	-0.26	0.51	7341	-5.2
13	O027	D	-0.850	0.032	0.80	0.52	0.006	0.08	0.05	0.08	0.80	-0.24	-0.29	-0.26	0.52	7315	-5.6
14	O027	D	-0.850	0.032	0.80	0.51	0.006	0.07	0.04	0.08	0.80	-0.20	-0.27	-0.29	0.51	7303	-5.0
15	O027	D	-0.850	0.032	0.81	0.52	0.006	0.07	0.05	0.06	0.81	-0.22	-0.30	-0.26	0.52	7292	-6.8
16	O027	D	-0.850	0.032	0.80	0.51	0.005	0.08	0.05	0.07	0.80	-0.22	-0.30	-0.25	0.51	7295	-3.3
17	O027	D	-0.850	0.034	0.80	0.53	0.006	0.08	0.04	0.07	0.80	-0.24	-0.29	-0.27	0.53	7314	-1.4
18	O027	D	-0.850	0.034	0.81	0.50	0.006	0.07	0.04	0.07	0.81	-0.23	-0.26	-0.26	0.50	7287	-1.7
19	O027	D	-0.850	0.034	0.80	0.51	0.005	0.08	0.04	0.07	0.80	-0.23	-0.30	-0.26	0.51	7333	-2.8
20	O027	D	-0.850	0.034	0.80	0.52	0.006	0.07	0.04	0.08	0.80	-0.23	-0.27	-0.29	0.52	7347	-1.1
1	O028	A	0.181	0.026	0.64	0.44	0.015	0.64	0.04	0.14	0.16	0.44	-0.28	-0.26	-0.04	7853	3.6
2	O028	A	0.181	0.027	0.66	0.39	0.004	0.66	0.04	0.13	0.17	0.39	-0.27	-0.31	-0.04	7382	5.6
3	O028	A	0.181	0.027	0.66	0.41	0.007	0.66	0.04	0.14	0.16	0.41	-0.28	-0.32	-0.02	7363	4.0
4	O028	A	0.181	0.027	0.65	0.41	0.004	0.65	0.03	0.14	0.18	0.41	-0.27	-0.33	-0.05	7383	3.4
5	O028	A	0.181	0.027	0.66	0.40	0.004	0.66	0.04	0.13	0.17	0.40	-0.29	-0.30	-0.05	7364	2.4
6	O028	A	0.181	0.027	0.66	0.40	0.005	0.66	0.04	0.14	0.16	0.40	-0.26	-0.30	-0.05	7361	2.4
7	O028	A	0.181	0.027	0.66	0.41	0.004	0.66	0.04	0.13	0.17	0.41	-0.30	-0.33	-0.03	7378	4.0
8	O028	A	0.181	0.027	0.65	0.41	0.004	0.65	0.04	0.13	0.18	0.41	-0.29	-0.31	-0.05	7374	3.8
9	O028	A	0.181	0.027	0.66	0.42	0.004	0.66	0.04	0.13	0.17	0.42	-0.30	-0.31	-0.06	7385	0.7
10	O028	A	0.181	0.027	0.65	0.40	0.005	0.65	0.04	0.14	0.17	0.40	-0.28	-0.32	-0.03	7361	4.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O028	A	0.181	0.027	0.66	0.40	0.005	0.66	0.04	0.13	0.17	0.40	-0.29	-0.32	-0.02	7350	5.3
12	O028	A	0.181	0.027	0.65	0.40	0.006	0.65	0.04	0.14	0.17	0.40	-0.28	-0.30	-0.03	7341	2.9
13	O028	A	0.181	0.027	0.66	0.41	0.004	0.66	0.04	0.13	0.17	0.41	-0.27	-0.31	-0.05	7315	2.8
14	O028	A	0.181	0.027	0.65	0.40	0.005	0.65	0.03	0.14	0.17	0.40	-0.28	-0.31	-0.04	7303	3.1
15	O028	A	0.181	0.027	0.66	0.40	0.005	0.66	0.03	0.14	0.17	0.40	-0.27	-0.33	-0.04	7292	3.3
16	O028	A	0.181	0.027	0.66	0.40	0.004	0.66	0.04	0.14	0.17	0.40	-0.27	-0.31	-0.05	7295	4.8
17	O028	A	0.181	0.028	0.64	0.40	0.005	0.64	0.04	0.14	0.18	0.40	-0.28	-0.30	-0.04	7314	9.9
18	O028	A	0.181	0.028	0.65	0.39	0.005	0.65	0.04	0.13	0.17	0.39	-0.30	-0.32	-0.01	7287	7.8
19	O028	A	0.181	0.028	0.66	0.40	0.005	0.66	0.04	0.14	0.17	0.40	-0.30	-0.32	-0.02	7333	7.3
20	O028	A	0.181	0.028	0.65	0.41	0.004	0.65	0.04	0.14	0.17	0.41	-0.29	-0.31	-0.04	7347	8.1
1	O029	B	-1.002	0.032	0.79	0.57	0.016	0.02	0.79	0.11	0.07	-0.20	0.57	-0.30	-0.25	7853	-4.3
2	O029	B	-1.002	0.034	0.83	0.48	0.004	0.02	0.83	0.09	0.06	-0.20	0.48	-0.30	-0.23	7382	-4.4
3	O029	B	-1.002	0.033	0.82	0.49	0.006	0.01	0.82	0.09	0.07	-0.22	0.49	-0.26	-0.27	7363	-4.1
4	O029	B	-1.002	0.034	0.83	0.48	0.004	0.01	0.83	0.09	0.06	-0.21	0.48	-0.29	-0.25	7383	-4.0
5	O029	B	-1.002	0.034	0.82	0.48	0.005	0.02	0.82	0.10	0.07	-0.22	0.48	-0.29	-0.24	7364	-2.3
6	O029	B	-1.002	0.034	0.82	0.50	0.006	0.02	0.82	0.09	0.06	-0.20	0.50	-0.29	-0.25	7361	-4.4
7	O029	B	-1.002	0.034	0.82	0.50	0.004	0.01	0.82	0.09	0.07	-0.21	0.50	-0.28	-0.28	7378	-3.3
8	O029	B	-1.002	0.034	0.83	0.50	0.005	0.01	0.83	0.09	0.06	-0.21	0.50	-0.29	-0.27	7374	-5.7
9	O029	B	-1.002	0.033	0.83	0.49	0.005	0.01	0.83	0.09	0.06	-0.21	0.49	-0.29	-0.26	7385	-4.5
10	O029	B	-1.002	0.034	0.83	0.48	0.005	0.01	0.83	0.09	0.07	-0.19	0.48	-0.26	-0.27	7361	-4.7
11	O029	B	-1.002	0.034	0.82	0.53	0.005	0.01	0.82	0.10	0.06	-0.20	0.53	-0.31	-0.28	7350	-4.5
12	O029	B	-1.002	0.034	0.82	0.51	0.006	0.01	0.82	0.10	0.06	-0.21	0.51	-0.30	-0.25	7341	-3.7
13	O029	B	-1.002	0.033	0.82	0.49	0.006	0.01	0.82	0.09	0.07	-0.17	0.49	-0.27	-0.28	7315	-4.6
14	O029	B	-1.002	0.034	0.82	0.50	0.006	0.02	0.82	0.09	0.06	-0.22	0.50	-0.30	-0.25	7303	-5.0
15	O029	B	-1.002	0.034	0.83	0.49	0.004	0.01	0.83	0.09	0.06	-0.20	0.49	-0.29	-0.25	7292	-4.9
16	O029	B	-1.002	0.034	0.83	0.47	0.004	0.01	0.83	0.09	0.06	-0.19	0.47	-0.28	-0.24	7295	-3.6
17	O029	B	-1.002	0.036	0.82	0.51	0.005	0.01	0.82	0.09	0.06	-0.20	0.51	-0.31	-0.25	7314	-1.3
18	O029	B	-1.002	0.035	0.83	0.48	0.005	0.01	0.83	0.09	0.07	-0.18	0.48	-0.27	-0.27	7287	-0.4
19	O029	B	-1.002	0.035	0.83	0.50	0.005	0.01	0.83	0.09	0.07	-0.21	0.50	-0.29	-0.26	7333	-1.3
20	O029	B	-1.002	0.036	0.82	0.52	0.004	0.02	0.82	0.09	0.07	-0.22	0.52	-0.30	-0.28	7347	-0.3
1	O030	B	-0.080	0.027	0.66	0.51	0.015	0.09	0.66	0.13	0.10	-0.28	0.51	-0.18	-0.17	7853	-1.6
2	O030	B	-0.080	0.028	0.69	0.48	0.004	0.09	0.69	0.12	0.10	-0.33	0.48	-0.19	-0.19	7382	-2.0
3	O030	B	-0.080	0.028	0.69	0.48	0.007	0.08	0.69	0.13	0.09	-0.29	0.48	-0.19	-0.19	7363	-3.1
4	O030	B	-0.080	0.028	0.69	0.47	0.005	0.09	0.69	0.13	0.09	-0.29	0.47	-0.20	-0.18	7383	-1.1
5	O030	B	-0.080	0.028	0.69	0.47	0.005	0.09	0.69	0.12	0.10	-0.30	0.47	-0.18	-0.19	7364	-2.1
6	O030	B	-0.080	0.028	0.69	0.48	0.006	0.08	0.69	0.12	0.10	-0.29	0.48	-0.19	-0.19	7361	-3.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O030	B	-0.080	0.028	0.69	0.47	0.005	0.09	0.69	0.12	0.09	-0.32	0.47	-0.18	-0.18	7378	-1.6
8	O030	B	-0.080	0.028	0.68	0.47	0.005	0.09	0.68	0.13	0.10	-0.31	0.47	-0.17	-0.20	7374	-2.3
9	O030	B	-0.080	0.028	0.69	0.47	0.005	0.08	0.69	0.13	0.10	-0.31	0.47	-0.20	-0.18	7385	-2.3
10	O030	B	-0.080	0.028	0.69	0.48	0.006	0.09	0.69	0.12	0.10	-0.29	0.48	-0.20	-0.20	7361	-3.2
11	O030	B	-0.080	0.028	0.70	0.48	0.006	0.08	0.70	0.12	0.10	-0.29	0.48	-0.19	-0.22	7350	-3.0
12	O030	B	-0.080	0.028	0.69	0.49	0.006	0.08	0.69	0.12	0.10	-0.30	0.49	-0.21	-0.19	7341	-4.0
13	O030	B	-0.080	0.028	0.69	0.49	0.005	0.08	0.69	0.12	0.10	-0.30	0.49	-0.21	-0.20	7315	-5.0
14	O030	B	-0.080	0.028	0.69	0.48	0.005	0.09	0.69	0.12	0.09	-0.31	0.48	-0.18	-0.19	7303	-2.3
15	O030	B	-0.080	0.028	0.69	0.49	0.005	0.09	0.69	0.12	0.10	-0.30	0.49	-0.21	-0.20	7292	-3.5
16	O030	B	-0.080	0.028	0.69	0.49	0.004	0.09	0.69	0.12	0.10	-0.31	0.49	-0.20	-0.20	7295	-2.8
17	O030	B	-0.080	0.029	0.69	0.48	0.006	0.09	0.69	0.12	0.09	-0.29	0.48	-0.19	-0.19	7314	2.4
18	O030	B	-0.080	0.029	0.69	0.47	0.006	0.09	0.69	0.12	0.09	-0.30	0.47	-0.19	-0.18	7287	2.2
19	O030	B	-0.080	0.029	0.68	0.47	0.005	0.08	0.68	0.13	0.10	-0.29	0.47	-0.21	-0.18	7333	2.8
20	O030	B	-0.080	0.029	0.69	0.48	0.005	0.09	0.69	0.12	0.09	-0.29	0.48	-0.21	-0.18	7347	2.3
1	O032	C	-0.205	0.027	0.69	0.47	0.017	0.14	0.13	0.69	0.03	-0.15	-0.27	0.47	-0.16	7853	0.2
2	O032	C	-0.205	0.028	0.71	0.42	0.006	0.15	0.11	0.71	0.03	-0.16	-0.28	0.42	-0.18	7382	1.2
3	O032	C	-0.205	0.028	0.72	0.41	0.007	0.14	0.11	0.72	0.03	-0.17	-0.24	0.41	-0.18	7363	1.1
4	O032	C	-0.205	0.028	0.72	0.41	0.007	0.14	0.11	0.72	0.03	-0.16	-0.26	0.41	-0.17	7383	0.8
5	O032	C	-0.205	0.028	0.72	0.43	0.007	0.14	0.11	0.72	0.03	-0.18	-0.27	0.43	-0.19	7364	-1.5
6	O032	C	-0.205	0.028	0.71	0.43	0.006	0.14	0.12	0.71	0.03	-0.17	-0.27	0.43	-0.18	7361	0.7
7	O032	C	-0.205	0.029	0.71	0.42	0.006	0.14	0.11	0.71	0.03	-0.16	-0.26	0.42	-0.20	7378	1.8
8	O032	C	-0.205	0.028	0.71	0.43	0.005	0.15	0.11	0.71	0.03	-0.19	-0.26	0.43	-0.18	7374	0.4
9	O032	C	-0.205	0.028	0.72	0.44	0.006	0.14	0.11	0.72	0.03	-0.19	-0.28	0.44	-0.18	7385	-1.7
10	O032	C	-0.205	0.028	0.70	0.44	0.007	0.14	0.12	0.70	0.03	-0.18	-0.26	0.44	-0.20	7361	0.5
11	O032	C	-0.205	0.029	0.71	0.42	0.006	0.14	0.11	0.71	0.03	-0.17	-0.26	0.42	-0.17	7350	1.9
12	O032	C	-0.205	0.028	0.71	0.43	0.007	0.14	0.12	0.71	0.03	-0.18	-0.25	0.43	-0.17	7341	0.2
13	O032	C	-0.205	0.028	0.72	0.41	0.006	0.14	0.11	0.72	0.03	-0.16	-0.24	0.41	-0.19	7315	0.1
14	O032	C	-0.205	0.028	0.72	0.39	0.005	0.14	0.11	0.72	0.03	-0.15	-0.25	0.39	-0.19	7303	2.2
15	O032	C	-0.205	0.028	0.72	0.41	0.006	0.14	0.12	0.72	0.03	-0.17	-0.26	0.41	-0.16	7292	0.8
16	O032	C	-0.205	0.029	0.71	0.43	0.006	0.14	0.12	0.71	0.03	-0.17	-0.28	0.43	-0.16	7295	1.4
17	O032	C	-0.205	0.030	0.71	0.43	0.006	0.14	0.12	0.71	0.03	-0.18	-0.28	0.43	-0.18	7314	3.9
18	O032	C	-0.205	0.029	0.71	0.41	0.006	0.14	0.11	0.71	0.03	-0.18	-0.26	0.41	-0.16	7287	4.4
19	O032	C	-0.205	0.029	0.72	0.42	0.006	0.14	0.11	0.72	0.03	-0.19	-0.26	0.42	-0.17	7333	4.8
20	O032	C	-0.205	0.030	0.72	0.43	0.006	0.14	0.11	0.72	0.03	-0.19	-0.26	0.43	-0.18	7347	3.4
1	O033	D	-1.789	0.039	0.86	0.68	0.016	0.06	0.04	0.03	0.86	-0.32	-0.32	-0.29	0.68	7853	-9.9
2	O033	D	-1.789	0.042	0.89	0.60	0.006	0.05	0.03	0.02	0.89	-0.34	-0.31	-0.27	0.60	7382	-9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O033	D	-1.789	0.042	0.90	0.61	0.007	0.05	0.03	0.02	0.90	-0.34	-0.31	-0.27	0.61	7363	-9.9
4	O033	D	-1.789	0.043	0.90	0.60	0.006	0.05	0.03	0.02	0.90	-0.33	-0.31	-0.28	0.60	7383	-9.9
5	O033	D	-1.789	0.043	0.89	0.58	0.006	0.05	0.03	0.02	0.89	-0.34	-0.29	-0.27	0.58	7364	-9.9
6	O033	D	-1.789	0.043	0.89	0.60	0.007	0.05	0.03	0.02	0.89	-0.32	-0.30	-0.27	0.60	7361	-9.9
7	O033	D	-1.789	0.043	0.90	0.62	0.006	0.04	0.03	0.02	0.90	-0.32	-0.34	-0.30	0.62	7378	-9.9
8	O033	D	-1.789	0.042	0.89	0.60	0.005	0.05	0.03	0.02	0.89	-0.34	-0.30	-0.29	0.60	7374	-9.9
9	O033	D	-1.789	0.042	0.89	0.60	0.005	0.05	0.03	0.02	0.89	-0.32	-0.31	-0.30	0.60	7385	-9.9
10	O033	D	-1.789	0.043	0.89	0.58	0.007	0.05	0.03	0.02	0.89	-0.32	-0.30	-0.27	0.58	7361	-9.8
11	O033	D	-1.789	0.042	0.90	0.60	0.006	0.05	0.03	0.02	0.90	-0.33	-0.31	-0.27	0.60	7350	-9.9
12	O033	D	-1.789	0.042	0.89	0.60	0.007	0.05	0.03	0.02	0.89	-0.33	-0.30	-0.28	0.60	7341	-9.9
13	O033	D	-1.789	0.042	0.90	0.60	0.006	0.04	0.04	0.02	0.90	-0.32	-0.33	-0.27	0.60	7315	-9.9
14	O033	D	-1.789	0.042	0.90	0.60	0.005	0.04	0.03	0.02	0.90	-0.35	-0.33	-0.25	0.60	7303	-9.9
15	O033	D	-1.789	0.043	0.89	0.58	0.005	0.05	0.03	0.02	0.89	-0.33	-0.30	-0.27	0.58	7292	-9.6
16	O033	D	-1.789	0.042	0.90	0.59	0.005	0.05	0.03	0.02	0.90	-0.33	-0.30	-0.28	0.59	7295	-9.9
17	O033	D	-1.789	0.045	0.89	0.59	0.005	0.05	0.03	0.02	0.89	-0.32	-0.31	-0.28	0.59	7314	-6.9
18	O033	D	-1.789	0.045	0.90	0.59	0.005	0.05	0.03	0.02	0.90	-0.33	-0.29	-0.29	0.59	7287	-7.6
19	O033	D	-1.789	0.045	0.90	0.58	0.006	0.05	0.03	0.02	0.90	-0.34	-0.28	-0.26	0.58	7333	-8.0
20	O033	D	-1.789	0.045	0.89	0.61	0.005	0.05	0.04	0.02	0.89	-0.36	-0.32	-0.27	0.61	7347	-7.7
1	O034	B	0.163	0.026	0.62	0.56	0.017	0.09	0.62	0.19	0.09	-0.33	0.56	-0.16	-0.24	7853	-8.3
2	O034	B	0.163	0.027	0.64	0.54	0.006	0.08	0.64	0.19	0.09	-0.35	0.54	-0.17	-0.28	7382	-8.1
3	O034	B	0.163	0.027	0.65	0.55	0.008	0.08	0.65	0.19	0.08	-0.36	0.55	-0.18	-0.26	7363	-9.9
4	O034	B	0.163	0.027	0.65	0.56	0.006	0.07	0.65	0.19	0.08	-0.33	0.56	-0.22	-0.26	7383	-9.3
5	O034	B	0.163	0.027	0.65	0.55	0.006	0.08	0.65	0.18	0.09	-0.36	0.55	-0.19	-0.26	7364	-9.3
6	O034	B	0.163	0.027	0.65	0.54	0.007	0.08	0.65	0.19	0.08	-0.35	0.54	-0.18	-0.26	7361	-9.6
7	O034	B	0.163	0.027	0.65	0.54	0.006	0.08	0.65	0.18	0.08	-0.35	0.54	-0.19	-0.27	7378	-8.9
8	O034	B	0.163	0.027	0.65	0.54	0.005	0.08	0.65	0.18	0.09	-0.34	0.54	-0.19	-0.27	7374	-9.0
9	O034	B	0.163	0.027	0.65	0.55	0.006	0.08	0.65	0.18	0.09	-0.34	0.55	-0.19	-0.28	7385	-9.9
10	O034	B	0.163	0.027	0.65	0.54	0.007	0.07	0.65	0.19	0.08	-0.34	0.54	-0.18	-0.27	7361	-9.9
11	O034	B	0.163	0.027	0.65	0.54	0.006	0.07	0.65	0.19	0.09	-0.35	0.54	-0.19	-0.26	7350	-8.3
12	O034	B	0.163	0.027	0.65	0.53	0.007	0.07	0.65	0.19	0.09	-0.34	0.53	-0.17	-0.26	7341	-9.9
13	O034	B	0.163	0.027	0.66	0.53	0.005	0.07	0.66	0.19	0.08	-0.33	0.53	-0.19	-0.27	7315	-9.2
14	O034	B	0.163	0.027	0.65	0.55	0.005	0.08	0.65	0.18	0.08	-0.34	0.55	-0.21	-0.27	7303	-9.9
15	O034	B	0.163	0.027	0.66	0.57	0.006	0.07	0.66	0.19	0.08	-0.35	0.57	-0.22	-0.28	7292	-9.9
16	O034	B	0.163	0.027	0.64	0.54	0.005	0.08	0.64	0.19	0.08	-0.37	0.54	-0.18	-0.25	7295	-7.4
17	O034	B	0.163	0.028	0.64	0.54	0.006	0.08	0.64	0.19	0.09	-0.34	0.54	-0.19	-0.26	7314	-4.2
18	O034	B	0.163	0.028	0.66	0.52	0.005	0.07	0.66	0.18	0.08	-0.35	0.52	-0.17	-0.26	7287	-4.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O034	B	0.163	0.028	0.64	0.54	0.006	0.08	0.64	0.19	0.08	-0.37	0.54	-0.18	-0.26	7333	-4.3
20	O034	B	0.163	0.028	0.65	0.56	0.006	0.08	0.65	0.19	0.08	-0.36	0.56	-0.21	-0.28	7347	-5.4
1	O035	D	-0.588	0.029	0.74	0.52	0.019	0.04	0.06	0.14	0.74	-0.18	-0.27	-0.22	0.52	7853	-4.0
2	O035	D	-0.588	0.030	0.76	0.52	0.008	0.04	0.05	0.14	0.76	-0.23	-0.27	-0.28	0.52	7382	-4.8
3	O035	D	-0.588	0.030	0.77	0.50	0.007	0.04	0.05	0.13	0.77	-0.20	-0.28	-0.26	0.50	7363	-5.8
4	O035	D	-0.588	0.031	0.78	0.50	0.007	0.04	0.05	0.13	0.78	-0.19	-0.27	-0.27	0.50	7383	-6.2
5	O035	D	-0.588	0.030	0.78	0.49	0.008	0.04	0.05	0.12	0.78	-0.21	-0.28	-0.25	0.49	7364	-6.6
6	O035	D	-0.588	0.030	0.77	0.50	0.007	0.04	0.05	0.13	0.77	-0.21	-0.28	-0.26	0.50	7361	-5.7
7	O035	D	-0.588	0.031	0.77	0.51	0.007	0.04	0.06	0.13	0.77	-0.18	-0.31	-0.26	0.51	7378	-5.6
8	O035	D	-0.588	0.030	0.78	0.49	0.006	0.04	0.05	0.12	0.78	-0.21	-0.28	-0.25	0.49	7374	-6.3
9	O035	D	-0.588	0.030	0.77	0.49	0.007	0.04	0.05	0.13	0.77	-0.21	-0.29	-0.24	0.49	7385	-6.4
10	O035	D	-0.588	0.030	0.77	0.49	0.007	0.04	0.06	0.12	0.77	-0.19	-0.28	-0.25	0.49	7361	-5.8
11	O035	D	-0.588	0.031	0.77	0.48	0.007	0.04	0.05	0.13	0.77	-0.19	-0.29	-0.23	0.48	7350	-4.0
12	O035	D	-0.588	0.031	0.77	0.49	0.008	0.04	0.05	0.13	0.77	-0.19	-0.27	-0.24	0.49	7341	-5.0
13	O035	D	-0.588	0.030	0.77	0.51	0.006	0.04	0.05	0.13	0.77	-0.20	-0.28	-0.27	0.51	7315	-6.1
14	O035	D	-0.588	0.031	0.77	0.50	0.005	0.04	0.06	0.13	0.77	-0.19	-0.33	-0.25	0.50	7303	-4.9
15	O035	D	-0.588	0.031	0.77	0.50	0.007	0.04	0.05	0.13	0.77	-0.22	-0.28	-0.25	0.50	7292	-5.1
16	O035	D	-0.588	0.031	0.76	0.51	0.007	0.04	0.06	0.13	0.76	-0.20	-0.29	-0.26	0.51	7295	-5.4
17	O035	D	-0.588	0.032	0.77	0.52	0.007	0.04	0.05	0.13	0.77	-0.21	-0.30	-0.26	0.52	7314	-2.0
18	O035	D	-0.588	0.032	0.76	0.49	0.007	0.04	0.05	0.14	0.76	-0.16	-0.29	-0.26	0.49	7287	-0.1
19	O035	D	-0.588	0.032	0.77	0.49	0.007	0.04	0.05	0.14	0.77	-0.18	-0.29	-0.26	0.49	7333	-1.8
20	O035	D	-0.588	0.032	0.77	0.50	0.008	0.04	0.06	0.13	0.77	-0.21	-0.29	-0.25	0.50	7347	-0.4
1	O036	B	0.039	0.027	0.65	0.42	0.017	0.14	0.65	0.13	0.06	-0.25	0.42	-0.07	-0.17	7853	4.8
2	O036	B	0.039	0.027	0.67	0.41	0.007	0.13	0.67	0.13	0.06	-0.28	0.41	-0.11	-0.17	7382	2.1
3	O036	B	0.039	0.027	0.68	0.40	0.008	0.12	0.68	0.14	0.06	-0.26	0.40	-0.09	-0.20	7363	2.9
4	O036	B	0.039	0.027	0.68	0.40	0.007	0.12	0.68	0.13	0.06	-0.27	0.40	-0.11	-0.18	7383	1.3
5	O036	B	0.039	0.027	0.68	0.39	0.007	0.12	0.68	0.13	0.06	-0.26	0.39	-0.10	-0.18	7364	1.0
6	O036	B	0.039	0.027	0.67	0.41	0.008	0.12	0.67	0.14	0.06	-0.25	0.41	-0.11	-0.19	7361	1.8
7	O036	B	0.039	0.028	0.67	0.41	0.007	0.13	0.67	0.13	0.06	-0.27	0.41	-0.10	-0.21	7378	2.2
8	O036	B	0.039	0.027	0.68	0.40	0.006	0.13	0.68	0.13	0.06	-0.28	0.40	-0.10	-0.18	7374	2.1
9	O036	B	0.039	0.027	0.68	0.40	0.006	0.12	0.68	0.13	0.06	-0.27	0.40	-0.10	-0.19	7385	1.5
10	O036	B	0.039	0.027	0.67	0.43	0.007	0.13	0.67	0.14	0.06	-0.27	0.43	-0.13	-0.20	7361	-0.1
11	O036	B	0.039	0.028	0.68	0.41	0.006	0.12	0.68	0.13	0.06	-0.27	0.41	-0.09	-0.20	7350	2.9
12	O036	B	0.039	0.027	0.68	0.41	0.008	0.12	0.68	0.13	0.06	-0.26	0.41	-0.10	-0.19	7341	1.3
13	O036	B	0.039	0.027	0.68	0.42	0.006	0.13	0.68	0.13	0.06	-0.27	0.42	-0.12	-0.20	7315	0.4
14	O036	B	0.039	0.027	0.68	0.40	0.006	0.12	0.68	0.14	0.06	-0.27	0.40	-0.09	-0.22	7303	2.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O036	B	0.039	0.027	0.68	0.40	0.006	0.13	0.68	0.13	0.06	-0.28	0.40	-0.10	-0.19	7292	1.1
16	O036	B	0.039	0.028	0.68	0.40	0.007	0.12	0.68	0.13	0.06	-0.28	0.40	-0.09	-0.19	7295	3.4
17	O036	B	0.039	0.028	0.67	0.40	0.007	0.13	0.67	0.13	0.06	-0.26	0.40	-0.10	-0.20	7314	6.4
18	O036	B	0.039	0.028	0.68	0.40	0.007	0.13	0.68	0.12	0.06	-0.27	0.40	-0.09	-0.19	7287	5.7
19	O036	B	0.039	0.028	0.68	0.40	0.007	0.13	0.68	0.13	0.06	-0.28	0.40	-0.09	-0.19	7333	5.7
20	O036	B	0.039	0.028	0.68	0.42	0.007	0.13	0.68	0.13	0.06	-0.29	0.42	-0.12	-0.18	7347	4.4
1	O037	D	-0.277	0.028	0.69	0.59	0.017	0.05	0.07	0.18	0.69	-0.27	-0.28	-0.24	0.59	7853	-8.1
2	O037	D	-0.277	0.029	0.71	0.57	0.007	0.04	0.06	0.18	0.71	-0.28	-0.29	-0.29	0.57	7382	-8.0
3	O037	D	-0.277	0.029	0.72	0.57	0.007	0.04	0.06	0.17	0.72	-0.29	-0.27	-0.29	0.57	7363	-9.5
4	O037	D	-0.277	0.029	0.73	0.56	0.008	0.04	0.06	0.17	0.73	-0.27	-0.31	-0.27	0.56	7383	-8.0
5	O037	D	-0.277	0.029	0.73	0.56	0.006	0.04	0.06	0.17	0.73	-0.31	-0.29	-0.27	0.56	7364	-9.1
6	O037	D	-0.277	0.029	0.72	0.56	0.008	0.04	0.06	0.17	0.72	-0.27	-0.29	-0.28	0.56	7361	-9.5
7	O037	D	-0.277	0.029	0.72	0.54	0.007	0.04	0.06	0.17	0.72	-0.29	-0.27	-0.26	0.54	7378	-5.0
8	O037	D	-0.277	0.029	0.72	0.55	0.006	0.04	0.06	0.18	0.72	-0.28	-0.30	-0.28	0.55	7374	-7.9
9	O037	D	-0.277	0.029	0.72	0.56	0.006	0.04	0.06	0.17	0.72	-0.30	-0.30	-0.27	0.56	7385	-9.7
10	O037	D	-0.277	0.029	0.73	0.55	0.008	0.04	0.06	0.17	0.73	-0.27	-0.28	-0.27	0.55	7361	-8.4
11	O037	D	-0.277	0.029	0.72	0.56	0.007	0.04	0.06	0.17	0.72	-0.29	-0.29	-0.27	0.56	7350	-7.1
12	O037	D	-0.277	0.029	0.72	0.54	0.007	0.04	0.06	0.17	0.72	-0.27	-0.27	-0.26	0.54	7341	-7.9
13	O037	D	-0.277	0.029	0.72	0.55	0.006	0.04	0.06	0.17	0.72	-0.30	-0.28	-0.27	0.55	7315	-9.4
14	O037	D	-0.277	0.029	0.73	0.55	0.005	0.04	0.06	0.17	0.73	-0.26	-0.28	-0.29	0.55	7303	-9.1
15	O037	D	-0.277	0.029	0.72	0.55	0.006	0.04	0.06	0.18	0.72	-0.27	-0.29	-0.28	0.55	7292	-7.4
16	O037	D	-0.277	0.029	0.72	0.55	0.006	0.04	0.06	0.18	0.72	-0.26	-0.30	-0.28	0.55	7295	-8.0
17	O037	D	-0.277	0.030	0.71	0.55	0.007	0.04	0.06	0.18	0.71	-0.29	-0.28	-0.27	0.55	7314	-2.2
18	O037	D	-0.277	0.030	0.73	0.56	0.006	0.04	0.06	0.17	0.73	-0.27	-0.27	-0.31	0.56	7287	-5.5
19	O037	D	-0.277	0.030	0.72	0.56	0.007	0.04	0.06	0.18	0.72	-0.25	-0.29	-0.30	0.56	7333	-4.7
20	O037	D	-0.277	0.030	0.72	0.56	0.007	0.04	0.06	0.17	0.72	-0.28	-0.30	-0.28	0.56	7347	-3.6
1	O038	D	-1.611	0.037	0.85	0.61	0.017	0.04	0.04	0.04	0.85	-0.28	-0.25	-0.28	0.61	7853	-7.9
2	O038	D	-1.611	0.040	0.89	0.56	0.007	0.04	0.04	0.03	0.89	-0.30	-0.27	-0.29	0.56	7382	-8.4
3	O038	D	-1.611	0.039	0.88	0.55	0.008	0.04	0.03	0.04	0.88	-0.29	-0.26	-0.26	0.55	7363	-6.9
4	O038	D	-1.611	0.040	0.88	0.55	0.008	0.04	0.03	0.04	0.88	-0.28	-0.26	-0.28	0.55	7383	-7.6
5	O038	D	-1.611	0.040	0.88	0.55	0.006	0.04	0.04	0.04	0.88	-0.30	-0.26	-0.28	0.55	7364	-6.7
6	O038	D	-1.611	0.040	0.88	0.57	0.008	0.04	0.04	0.04	0.88	-0.28	-0.27	-0.30	0.57	7361	-8.6
7	O038	D	-1.611	0.040	0.88	0.58	0.007	0.04	0.04	0.04	0.88	-0.31	-0.28	-0.28	0.58	7378	-7.9
8	O038	D	-1.611	0.040	0.88	0.57	0.006	0.04	0.03	0.04	0.88	-0.29	-0.27	-0.29	0.57	7374	-8.4
9	O038	D	-1.611	0.040	0.89	0.56	0.006	0.04	0.03	0.04	0.89	-0.30	-0.25	-0.30	0.56	7385	-9.8
10	O038	D	-1.611	0.040	0.88	0.57	0.007	0.04	0.04	0.04	0.88	-0.26	-0.26	-0.32	0.57	7361	-7.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O038	D	-1.611	0.040	0.88	0.57	0.006	0.04	0.04	0.04	0.88	-0.30	-0.27	-0.28	0.57	7350	-7.8
12	O038	D	-1.611	0.040	0.88	0.57	0.007	0.04	0.03	0.04	0.88	-0.30	-0.25	-0.29	0.57	7341	-7.8
13	O038	D	-1.611	0.040	0.88	0.58	0.007	0.04	0.04	0.04	0.88	-0.30	-0.27	-0.29	0.58	7315	-7.7
14	O038	D	-1.611	0.040	0.89	0.55	0.005	0.04	0.03	0.04	0.89	-0.28	-0.27	-0.29	0.55	7303	-9.1
15	O038	D	-1.611	0.040	0.89	0.54	0.005	0.04	0.03	0.04	0.89	-0.30	-0.26	-0.27	0.54	7292	-6.6
16	O038	D	-1.611	0.040	0.88	0.57	0.006	0.04	0.04	0.04	0.88	-0.28	-0.28	-0.29	0.57	7295	-7.2
17	O038	D	-1.611	0.043	0.88	0.56	0.007	0.04	0.03	0.04	0.88	-0.29	-0.26	-0.30	0.56	7314	-4.6
18	O038	D	-1.611	0.043	0.88	0.56	0.006	0.04	0.03	0.04	0.88	-0.31	-0.25	-0.28	0.56	7287	-5.0
19	O038	D	-1.611	0.042	0.88	0.56	0.006	0.04	0.04	0.03	0.88	-0.29	-0.29	-0.27	0.56	7333	-5.0
20	O038	D	-1.611	0.043	0.88	0.53	0.006	0.04	0.04	0.04	0.88	-0.30	-0.26	-0.25	0.53	7347	-3.5
1	O039	C	-1.141	0.033	0.80	0.56	0.017	0.10	0.04	0.80	0.05	-0.26	-0.26	0.56	-0.20	7853	-2.8
2	O039	C	-1.141	0.035	0.84	0.52	0.007	0.08	0.03	0.84	0.04	-0.28	-0.28	0.52	-0.23	7382	-4.2
3	O039	C	-1.141	0.034	0.83	0.53	0.008	0.08	0.03	0.83	0.05	-0.26	-0.27	0.53	-0.25	7363	-5.7
4	O039	C	-1.141	0.035	0.84	0.52	0.007	0.08	0.03	0.84	0.04	-0.29	-0.25	0.52	-0.24	7383	-5.2
5	O039	C	-1.141	0.035	0.84	0.51	0.007	0.09	0.03	0.84	0.04	-0.28	-0.26	0.51	-0.24	7364	-5.0
6	O039	C	-1.141	0.035	0.83	0.52	0.008	0.08	0.03	0.83	0.05	-0.27	-0.27	0.52	-0.23	7361	-4.5
7	O039	C	-1.141	0.035	0.83	0.52	0.007	0.09	0.03	0.83	0.04	-0.27	-0.29	0.52	-0.22	7378	-2.9
8	O039	C	-1.141	0.035	0.84	0.51	0.006	0.09	0.03	0.84	0.05	-0.28	-0.27	0.51	-0.23	7374	-5.0
9	O039	C	-1.141	0.035	0.84	0.51	0.006	0.08	0.03	0.84	0.05	-0.27	-0.26	0.51	-0.25	7385	-6.4
10	O039	C	-1.141	0.035	0.83	0.54	0.008	0.09	0.03	0.83	0.04	-0.29	-0.28	0.54	-0.23	7361	-5.3
11	O039	C	-1.141	0.035	0.84	0.49	0.007	0.08	0.03	0.84	0.04	-0.25	-0.24	0.49	-0.23	7350	-2.7
12	O039	C	-1.141	0.035	0.84	0.55	0.007	0.08	0.03	0.84	0.05	-0.28	-0.30	0.55	-0.25	7341	-7.8
13	O039	C	-1.141	0.035	0.83	0.51	0.007	0.09	0.03	0.83	0.04	-0.27	-0.28	0.51	-0.23	7315	-4.8
14	O039	C	-1.141	0.035	0.84	0.50	0.005	0.08	0.03	0.84	0.05	-0.27	-0.27	0.50	-0.22	7303	-4.8
15	O039	C	-1.141	0.035	0.84	0.50	0.006	0.08	0.03	0.84	0.04	-0.26	-0.29	0.50	-0.21	7292	-4.1
16	O039	C	-1.141	0.035	0.84	0.52	0.007	0.08	0.03	0.84	0.05	-0.27	-0.29	0.52	-0.24	7295	-5.8
17	O039	C	-1.141	0.037	0.83	0.52	0.007	0.09	0.03	0.83	0.04	-0.27	-0.30	0.52	-0.22	7314	-0.2
18	O039	C	-1.141	0.037	0.83	0.50	0.006	0.09	0.03	0.83	0.05	-0.27	-0.29	0.50	-0.21	7287	0.3
19	O039	C	-1.141	0.037	0.84	0.51	0.007	0.08	0.03	0.84	0.04	-0.28	-0.31	0.51	-0.20	7333	-2.3
20	O039	C	-1.141	0.037	0.84	0.50	0.006	0.08	0.03	0.84	0.05	-0.28	-0.27	0.50	-0.22	7347	-1.3
1	O040	D	-1.068	0.032	0.79	0.62	0.017	0.05	0.07	0.07	0.79	-0.24	-0.30	-0.28	0.62	7853	-8.1
2	O040	D	-1.068	0.034	0.83	0.59	0.007	0.04	0.07	0.06	0.83	-0.26	-0.33	-0.29	0.59	7382	-8.7
3	O040	D	-1.068	0.034	0.82	0.60	0.008	0.04	0.06	0.07	0.82	-0.27	-0.31	-0.30	0.60	7363	-8.5
4	O040	D	-1.068	0.034	0.83	0.58	0.007	0.04	0.06	0.06	0.83	-0.25	-0.33	-0.28	0.58	7383	-8.0
5	O040	D	-1.068	0.034	0.83	0.56	0.006	0.04	0.06	0.06	0.83	-0.26	-0.29	-0.29	0.56	7364	-8.0
6	O040	D	-1.068	0.034	0.83	0.60	0.007	0.04	0.06	0.07	0.83	-0.25	-0.33	-0.30	0.60	7361	-8.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O040	D	-1.068	0.035	0.83	0.60	0.006	0.05	0.06	0.06	0.83	-0.27	-0.32	-0.30	0.60	7378	-7.3
8	O040	D	-1.068	0.034	0.83	0.60	0.006	0.04	0.06	0.06	0.83	-0.27	-0.35	-0.28	0.60	7374	-9.0
9	O040	D	-1.068	0.034	0.83	0.59	0.007	0.04	0.06	0.06	0.83	-0.25	-0.33	-0.30	0.59	7385	-9.9
10	O040	D	-1.068	0.034	0.83	0.60	0.008	0.05	0.06	0.06	0.83	-0.28	-0.32	-0.29	0.60	7361	-8.5
11	O040	D	-1.068	0.034	0.83	0.59	0.007	0.04	0.06	0.06	0.83	-0.27	-0.32	-0.29	0.59	7350	-8.0
12	O040	D	-1.068	0.034	0.83	0.58	0.007	0.04	0.06	0.06	0.83	-0.26	-0.30	-0.28	0.58	7341	-7.3
13	O040	D	-1.068	0.034	0.83	0.61	0.006	0.04	0.06	0.07	0.83	-0.28	-0.32	-0.31	0.61	7315	-9.9
14	O040	D	-1.068	0.034	0.83	0.56	0.005	0.04	0.06	0.06	0.83	-0.25	-0.31	-0.28	0.56	7303	-7.9
15	O040	D	-1.068	0.034	0.83	0.57	0.006	0.04	0.06	0.06	0.83	-0.26	-0.31	-0.29	0.57	7292	-8.7
16	O040	D	-1.068	0.034	0.83	0.58	0.007	0.05	0.06	0.06	0.83	-0.28	-0.31	-0.28	0.58	7295	-8.5
17	O040	D	-1.068	0.036	0.83	0.58	0.007	0.04	0.06	0.06	0.83	-0.27	-0.30	-0.29	0.58	7314	-4.1
18	O040	D	-1.068	0.036	0.83	0.58	0.007	0.05	0.05	0.06	0.83	-0.27	-0.29	-0.31	0.58	7287	-4.3
19	O040	D	-1.068	0.036	0.82	0.58	0.006	0.05	0.06	0.07	0.82	-0.29	-0.30	-0.29	0.58	7333	-5.0
20	O040	D	-1.068	0.036	0.83	0.59	0.006	0.05	0.06	0.06	0.83	-0.27	-0.31	-0.30	0.59	7347	-4.7
1	O041	B	-0.440	0.028	0.72	0.52	0.017	0.08	0.72	0.08	0.11	-0.26	0.52	-0.21	-0.18	7853	-4.3
2	O041	B	-0.440	0.030	0.75	0.54	0.008	0.07	0.75	0.07	0.10	-0.30	0.54	-0.24	-0.24	7382	-6.9
3	O041	B	-0.440	0.029	0.75	0.54	0.009	0.07	0.75	0.07	0.10	-0.31	0.54	-0.24	-0.22	7363	-8.9
4	O041	B	-0.440	0.030	0.75	0.50	0.008	0.07	0.75	0.07	0.10	-0.29	0.50	-0.22	-0.22	7383	-4.6
5	O041	B	-0.440	0.030	0.75	0.50	0.007	0.07	0.75	0.07	0.11	-0.31	0.50	-0.21	-0.21	7364	-5.2
6	O041	B	-0.440	0.030	0.75	0.52	0.009	0.07	0.75	0.07	0.11	-0.29	0.52	-0.23	-0.22	7361	-6.2
7	O041	B	-0.440	0.030	0.75	0.52	0.007	0.07	0.75	0.07	0.10	-0.30	0.52	-0.24	-0.21	7378	-4.4
8	O041	B	-0.440	0.030	0.75	0.52	0.007	0.07	0.75	0.07	0.10	-0.29	0.52	-0.25	-0.23	7374	-6.8
9	O041	B	-0.440	0.029	0.76	0.51	0.008	0.06	0.76	0.07	0.10	-0.30	0.51	-0.23	-0.22	7385	-7.8
10	O041	B	-0.440	0.030	0.75	0.52	0.009	0.07	0.75	0.07	0.10	-0.29	0.52	-0.25	-0.22	7361	-7.0
11	O041	B	-0.440	0.030	0.75	0.52	0.007	0.07	0.75	0.07	0.11	-0.28	0.52	-0.23	-0.23	7350	-5.3
12	O041	B	-0.440	0.030	0.75	0.49	0.008	0.07	0.75	0.08	0.10	-0.28	0.49	-0.22	-0.20	7341	-4.8
13	O041	B	-0.440	0.029	0.75	0.51	0.007	0.07	0.75	0.08	0.10	-0.31	0.51	-0.23	-0.20	7315	-6.7
14	O041	B	-0.440	0.030	0.76	0.52	0.006	0.07	0.76	0.08	0.10	-0.29	0.52	-0.26	-0.21	7303	-7.8
15	O041	B	-0.440	0.030	0.76	0.50	0.007	0.07	0.76	0.07	0.10	-0.29	0.50	-0.23	-0.21	7292	-6.6
16	O041	B	-0.440	0.030	0.74	0.50	0.007	0.07	0.74	0.07	0.11	-0.30	0.50	-0.22	-0.21	7295	-3.4
17	O041	B	-0.440	0.031	0.74	0.51	0.007	0.07	0.74	0.07	0.11	-0.28	0.51	-0.23	-0.23	7314	-1.2
18	O041	B	-0.440	0.031	0.76	0.51	0.007	0.06	0.76	0.07	0.11	-0.28	0.51	-0.25	-0.22	7287	-2.6
19	O041	B	-0.440	0.031	0.75	0.49	0.007	0.07	0.75	0.07	0.10	-0.27	0.49	-0.23	-0.21	7333	-0.5
20	O041	B	-0.440	0.031	0.75	0.51	0.007	0.07	0.75	0.07	0.11	-0.31	0.51	-0.22	-0.22	7347	-1.4
1	O042	A	0.744	0.025	0.52	0.40	0.018	0.52	0.12	0.11	0.23	0.40	-0.22	-0.14	-0.08	7853	7.6
2	O042	A	0.744	0.026	0.55	0.42	0.008	0.55	0.11	0.10	0.23	0.42	-0.23	-0.18	-0.15	7382	1.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O042	A	0.744	0.026	0.55	0.40	0.009	0.55	0.11	0.11	0.22	0.40	-0.23	-0.17	-0.12	7363	4.0
4	O042	A	0.744	0.026	0.55	0.43	0.009	0.55	0.11	0.11	0.23	0.43	-0.22	-0.22	-0.13	7383	1.2
5	O042	A	0.744	0.026	0.54	0.42	0.008	0.54	0.11	0.11	0.23	0.42	-0.24	-0.19	-0.13	7364	0.5
6	O042	A	0.744	0.026	0.55	0.42	0.010	0.55	0.11	0.11	0.22	0.42	-0.25	-0.17	-0.12	7361	1.8
7	O042	A	0.744	0.026	0.55	0.41	0.008	0.55	0.12	0.10	0.23	0.41	-0.25	-0.18	-0.11	7378	2.4
8	O042	A	0.744	0.026	0.55	0.41	0.008	0.55	0.12	0.11	0.22	0.41	-0.27	-0.17	-0.11	7374	1.8
9	O042	A	0.744	0.026	0.56	0.43	0.007	0.56	0.11	0.11	0.22	0.43	-0.24	-0.19	-0.14	7385	0.4
10	O042	A	0.744	0.025	0.55	0.41	0.009	0.55	0.11	0.11	0.23	0.41	-0.24	-0.18	-0.12	7361	1.7
11	O042	A	0.744	0.026	0.55	0.42	0.008	0.55	0.12	0.10	0.22	0.42	-0.25	-0.17	-0.13	7350	1.5
12	O042	A	0.744	0.026	0.55	0.42	0.008	0.55	0.11	0.11	0.22	0.42	-0.23	-0.19	-0.12	7341	0.0
13	O042	A	0.744	0.026	0.55	0.42	0.007	0.55	0.11	0.11	0.23	0.42	-0.25	-0.18	-0.13	7315	0.6
14	O042	A	0.744	0.026	0.55	0.39	0.007	0.55	0.12	0.10	0.23	0.39	-0.24	-0.18	-0.11	7303	4.6
15	O042	A	0.744	0.026	0.54	0.41	0.008	0.54	0.12	0.11	0.23	0.41	-0.24	-0.18	-0.13	7292	1.4
16	O042	A	0.744	0.026	0.54	0.41	0.008	0.54	0.11	0.12	0.22	0.41	-0.23	-0.18	-0.13	7295	3.1
17	O042	A	0.744	0.026	0.55	0.41	0.007	0.55	0.11	0.11	0.22	0.41	-0.24	-0.19	-0.12	7314	2.8
18	O042	A	0.744	0.026	0.55	0.41	0.008	0.55	0.11	0.11	0.22	0.41	-0.24	-0.17	-0.13	7287	3.1
19	O042	A	0.744	0.026	0.55	0.41	0.007	0.55	0.11	0.10	0.23	0.41	-0.25	-0.17	-0.14	7333	3.2
20	O042	A	0.744	0.026	0.55	0.42	0.008	0.55	0.11	0.11	0.22	0.42	-0.26	-0.20	-0.12	7347	2.4
1	O043	A	-3.003	0.060	0.94	0.47	0.018	0.94	0.02	0.01	0.01	0.47	-0.18	-0.14	-0.18	7853	-0.7
2	O043	A	-3.003	0.066	0.96	0.33	0.007	0.96	0.02	0.01	0.01	0.33	-0.14	-0.15	-0.13	7382	2.1
3	O043	A	-3.003	0.065	0.96	0.36	0.007	0.96	0.02	0.01	0.01	0.36	-0.13	-0.17	-0.16	7363	-0.4
4	O043	A	-3.003	0.067	0.96	0.33	0.007	0.96	0.02	0.01	0.01	0.33	-0.14	-0.14	-0.15	7383	1.0
5	O043	A	-3.003	0.068	0.97	0.32	0.007	0.97	0.01	0.01	0.01	0.32	-0.13	-0.16	-0.14	7364	-1.3
6	O043	A	-3.003	0.068	0.96	0.33	0.009	0.96	0.02	0.01	0.01	0.33	-0.13	-0.14	-0.13	7361	1.1
7	O043	A	-3.003	0.067	0.96	0.33	0.007	0.96	0.02	0.01	0.01	0.33	-0.12	-0.14	-0.17	7378	1.8
8	O043	A	-3.003	0.066	0.96	0.34	0.008	0.96	0.02	0.00	0.01	0.34	-0.17	-0.14	-0.13	7374	-0.3
9	O043	A	-3.003	0.066	0.97	0.33	0.006	0.97	0.01	0.01	0.01	0.33	-0.12	-0.14	-0.16	7385	-1.6
10	O043	A	-3.003	0.068	0.96	0.36	0.009	0.96	0.02	0.01	0.01	0.36	-0.15	-0.15	-0.14	7361	-0.4
11	O043	A	-3.003	0.067	0.96	0.34	0.007	0.96	0.02	0.00	0.01	0.34	-0.14	-0.13	-0.15	7350	1.2
12	O043	A	-3.003	0.067	0.96	0.35	0.008	0.96	0.02	0.01	0.01	0.35	-0.15	-0.14	-0.14	7341	-0.1
13	O043	A	-3.003	0.066	0.96	0.34	0.007	0.96	0.02	0.01	0.01	0.34	-0.16	-0.15	-0.14	7315	0.0
14	O043	A	-3.003	0.067	0.97	0.33	0.006	0.97	0.02	0.00	0.01	0.33	-0.16	-0.14	-0.14	7303	-0.6
15	O043	A	-3.003	0.068	0.96	0.35	0.007	0.96	0.02	0.01	0.01	0.35	-0.16	-0.15	-0.15	7292	-2.3
16	O043	A	-3.003	0.067	0.96	0.35	0.007	0.96	0.02	0.01	0.01	0.35	-0.17	-0.16	-0.14	7295	0.5
17	O043	A	-3.003	0.073	0.96	0.33	0.007	0.96	0.02	0.01	0.01	0.33	-0.12	-0.16	-0.18	7314	1.8
18	O043	A	-3.003	0.072	0.96	0.34	0.007	0.96	0.02	0.01	0.01	0.34	-0.13	-0.17	-0.15	7287	1.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O043	A	-3.003	0.072	0.96	0.34	0.007	0.96	0.02	0.01	0.01	0.34	-0.15	-0.16	-0.15	7333	0.9
20	O043	A	-3.003	0.073	0.96	0.36	0.007	0.96	0.02	0.01	0.01	0.36	-0.18	-0.17	-0.13	7347	0.8
1	O044	D	-1.296	0.034	0.82	0.60	0.019	0.03	0.08	0.05	0.82	-0.24	-0.36	-0.17	0.60	7853	-6.2
2	O044	D	-1.296	0.036	0.86	0.50	0.008	0.02	0.06	0.05	0.86	-0.18	-0.34	-0.21	0.50	7382	-6.1
3	O044	D	-1.296	0.036	0.85	0.53	0.007	0.02	0.06	0.06	0.85	-0.22	-0.35	-0.20	0.53	7363	-6.8
4	O044	D	-1.296	0.037	0.86	0.51	0.008	0.02	0.06	0.05	0.86	-0.23	-0.32	-0.22	0.51	7383	-6.4
5	O044	D	-1.296	0.036	0.86	0.52	0.008	0.02	0.06	0.05	0.86	-0.20	-0.35	-0.21	0.52	7364	-7.0
6	O044	D	-1.296	0.036	0.86	0.52	0.009	0.02	0.06	0.05	0.86	-0.21	-0.34	-0.20	0.52	7361	-6.4
7	O044	D	-1.296	0.037	0.85	0.54	0.008	0.02	0.06	0.06	0.85	-0.22	-0.36	-0.22	0.54	7378	-5.0
8	O044	D	-1.296	0.036	0.86	0.48	0.009	0.02	0.06	0.05	0.86	-0.20	-0.32	-0.18	0.48	7374	-4.7
9	O044	D	-1.296	0.036	0.86	0.51	0.008	0.02	0.06	0.06	0.86	-0.20	-0.33	-0.22	0.51	7385	-6.3
10	O044	D	-1.296	0.037	0.86	0.51	0.009	0.03	0.06	0.05	0.86	-0.23	-0.31	-0.20	0.51	7361	-5.4
11	O044	D	-1.296	0.037	0.86	0.53	0.008	0.02	0.06	0.05	0.86	-0.24	-0.34	-0.21	0.53	7350	-5.4
12	O044	D	-1.296	0.036	0.85	0.52	0.008	0.02	0.06	0.06	0.85	-0.20	-0.33	-0.22	0.52	7341	-5.1
13	O044	D	-1.296	0.036	0.86	0.51	0.008	0.02	0.06	0.05	0.86	-0.21	-0.32	-0.21	0.51	7315	-6.9
14	O044	D	-1.296	0.036	0.86	0.52	0.006	0.02	0.06	0.05	0.86	-0.21	-0.33	-0.24	0.52	7303	-7.0
15	O044	D	-1.296	0.037	0.86	0.53	0.008	0.02	0.06	0.05	0.86	-0.22	-0.33	-0.23	0.53	7292	-6.5
16	O044	D	-1.296	0.036	0.85	0.53	0.008	0.02	0.06	0.06	0.85	-0.22	-0.34	-0.23	0.53	7295	-5.3
17	O044	D	-1.296	0.039	0.85	0.53	0.008	0.02	0.06	0.06	0.85	-0.21	-0.36	-0.22	0.53	7314	-2.7
18	O044	D	-1.296	0.039	0.86	0.53	0.007	0.02	0.06	0.06	0.86	-0.19	-0.35	-0.23	0.53	7287	-2.2
19	O044	D	-1.296	0.039	0.85	0.52	0.008	0.03	0.06	0.05	0.85	-0.22	-0.36	-0.19	0.52	7333	-1.7
20	O044	D	-1.296	0.039	0.86	0.52	0.007	0.02	0.06	0.05	0.86	-0.23	-0.34	-0.22	0.52	7347	-3.3
1	O045	C	-0.622	0.029	0.76	0.44	0.019	0.17	0.02	0.76	0.03	-0.15	-0.22	0.44	-0.24	7853	0.8
2	O045	C	-0.622	0.031	0.79	0.40	0.008	0.16	0.02	0.79	0.02	-0.21	-0.21	0.40	-0.22	7382	-0.7
3	O045	C	-0.622	0.031	0.79	0.39	0.008	0.16	0.02	0.79	0.03	-0.19	-0.22	0.39	-0.22	7363	-0.7
4	O045	C	-0.622	0.031	0.79	0.40	0.008	0.16	0.02	0.79	0.03	-0.20	-0.23	0.40	-0.24	7383	-0.9
5	O045	C	-0.622	0.031	0.79	0.37	0.008	0.16	0.02	0.79	0.02	-0.19	-0.22	0.37	-0.19	7364	0.3
6	O045	C	-0.622	0.031	0.78	0.38	0.010	0.17	0.02	0.78	0.02	-0.17	-0.23	0.38	-0.20	7361	1.8
7	O045	C	-0.622	0.031	0.79	0.38	0.009	0.16	0.02	0.79	0.03	-0.18	-0.22	0.38	-0.22	7378	1.5
8	O045	C	-0.622	0.031	0.78	0.37	0.008	0.17	0.02	0.78	0.02	-0.19	-0.24	0.37	-0.19	7374	0.7
9	O045	C	-0.622	0.031	0.78	0.39	0.008	0.17	0.02	0.78	0.02	-0.21	-0.23	0.39	-0.20	7385	-0.1
10	O045	C	-0.622	0.031	0.79	0.39	0.009	0.16	0.02	0.79	0.02	-0.19	-0.22	0.39	-0.23	7361	-1.1
11	O045	C	-0.622	0.031	0.78	0.39	0.008	0.17	0.02	0.78	0.02	-0.20	-0.23	0.39	-0.19	7350	1.3
12	O045	C	-0.622	0.031	0.78	0.40	0.009	0.17	0.02	0.78	0.02	-0.21	-0.21	0.40	-0.21	7341	-1.1
13	O045	C	-0.622	0.031	0.78	0.38	0.008	0.17	0.02	0.78	0.03	-0.19	-0.25	0.38	-0.20	7315	0.9
14	O045	C	-0.622	0.031	0.79	0.38	0.007	0.17	0.02	0.79	0.02	-0.20	-0.20	0.38	-0.23	7303	-0.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O045	C	-0.622	0.031	0.79	0.38	0.008	0.16	0.02	0.79	0.02	-0.21	-0.21	0.38	-0.19	7292	-0.7
16	O045	C	-0.622	0.031	0.78	0.37	0.008	0.17	0.02	0.78	0.02	-0.20	-0.21	0.37	-0.21	7295	1.8
17	O045	C	-0.622	0.032	0.78	0.38	0.008	0.17	0.02	0.78	0.02	-0.21	-0.20	0.38	-0.22	7314	4.1
18	O045	C	-0.622	0.032	0.78	0.38	0.007	0.17	0.02	0.78	0.02	-0.20	-0.23	0.38	-0.19	7287	4.6
19	O045	C	-0.622	0.032	0.78	0.37	0.008	0.17	0.02	0.78	0.02	-0.19	-0.21	0.37	-0.22	7333	6.4
20	O045	C	-0.622	0.032	0.77	0.39	0.007	0.18	0.02	0.77	0.02	-0.21	-0.23	0.39	-0.20	7347	4.9
1	O046	B	0.473	0.026	0.60	0.35	0.020	0.07	0.60	0.19	0.13	-0.21	0.35	-0.14	-0.03	7853	9.9
2	O046	B	0.473	0.026	0.61	0.32	0.008	0.07	0.61	0.18	0.14	-0.20	0.32	-0.18	-0.04	7382	9.9
3	O046	B	0.473	0.026	0.60	0.33	0.009	0.06	0.60	0.19	0.14	-0.23	0.33	-0.16	-0.05	7363	9.0
4	O046	B	0.473	0.026	0.60	0.34	0.009	0.07	0.60	0.18	0.14	-0.24	0.34	-0.19	-0.04	7383	9.9
5	O046	B	0.473	0.026	0.61	0.33	0.008	0.06	0.61	0.18	0.14	-0.22	0.33	-0.18	-0.06	7364	7.9
6	O046	B	0.473	0.026	0.59	0.33	0.010	0.07	0.59	0.18	0.15	-0.20	0.33	-0.18	-0.05	7361	9.2
7	O046	B	0.473	0.026	0.60	0.34	0.009	0.07	0.60	0.19	0.14	-0.24	0.34	-0.16	-0.06	7378	8.8
8	O046	B	0.473	0.026	0.60	0.32	0.009	0.07	0.60	0.18	0.14	-0.21	0.32	-0.16	-0.06	7374	9.9
9	O046	B	0.473	0.026	0.61	0.34	0.008	0.06	0.61	0.18	0.14	-0.21	0.34	-0.19	-0.06	7385	7.7
10	O046	B	0.473	0.026	0.60	0.34	0.009	0.07	0.60	0.18	0.14	-0.24	0.34	-0.14	-0.07	7361	6.7
11	O046	B	0.473	0.026	0.60	0.34	0.009	0.07	0.60	0.18	0.14	-0.23	0.34	-0.16	-0.06	7350	9.9
12	O046	B	0.473	0.026	0.60	0.33	0.009	0.06	0.60	0.18	0.15	-0.22	0.33	-0.17	-0.04	7341	8.5
13	O046	B	0.473	0.026	0.61	0.35	0.008	0.07	0.61	0.18	0.14	-0.21	0.35	-0.18	-0.08	7315	6.6
14	O046	B	0.473	0.026	0.60	0.32	0.007	0.06	0.60	0.18	0.15	-0.22	0.32	-0.16	-0.06	7303	9.6
15	O046	B	0.473	0.026	0.61	0.33	0.008	0.06	0.61	0.18	0.14	-0.23	0.33	-0.17	-0.04	7292	8.6
16	O046	B	0.473	0.026	0.60	0.33	0.008	0.07	0.60	0.18	0.14	-0.22	0.33	-0.17	-0.05	7295	8.9
17	O046	B	0.473	0.027	0.60	0.32	0.008	0.07	0.60	0.19	0.14	-0.21	0.32	-0.17	-0.05	7314	9.9
18	O046	B	0.473	0.027	0.61	0.33	0.009	0.07	0.61	0.17	0.14	-0.21	0.33	-0.15	-0.07	7287	9.9
19	O046	B	0.473	0.027	0.60	0.34	0.009	0.07	0.60	0.19	0.13	-0.22	0.34	-0.18	-0.06	7333	9.9
20	O046	B	0.473	0.027	0.61	0.34	0.009	0.06	0.61	0.18	0.14	-0.24	0.34	-0.17	-0.06	7347	9.9
1	O047	C	-0.284	0.028	0.70	0.45	0.020	0.17	0.07	0.70	0.05	-0.18	-0.17	0.45	-0.19	7853	4.3
2	O047	C	-0.284	0.029	0.73	0.40	0.008	0.16	0.06	0.73	0.04	-0.19	-0.20	0.40	-0.18	7382	2.6
3	O047	C	-0.284	0.029	0.72	0.39	0.010	0.16	0.07	0.72	0.04	-0.19	-0.20	0.39	-0.15	7363	3.6
4	O047	C	-0.284	0.029	0.73	0.38	0.010	0.17	0.06	0.73	0.04	-0.20	-0.18	0.38	-0.14	7383	5.0
5	O047	C	-0.284	0.029	0.73	0.38	0.009	0.16	0.07	0.73	0.04	-0.20	-0.19	0.38	-0.15	7364	4.6
6	O047	C	-0.284	0.029	0.72	0.38	0.010	0.16	0.07	0.72	0.04	-0.19	-0.17	0.38	-0.15	7361	5.4
7	O047	C	-0.284	0.029	0.72	0.38	0.009	0.16	0.07	0.72	0.04	-0.18	-0.20	0.38	-0.14	7378	6.8
8	O047	C	-0.284	0.029	0.73	0.38	0.009	0.17	0.05	0.73	0.04	-0.22	-0.17	0.38	-0.13	7374	5.2
9	O047	C	-0.284	0.029	0.72	0.38	0.009	0.16	0.07	0.72	0.04	-0.20	-0.18	0.38	-0.15	7385	4.0
10	O047	C	-0.284	0.029	0.73	0.38	0.010	0.15	0.07	0.73	0.04	-0.19	-0.18	0.38	-0.16	7361	3.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O047	C	-0.284	0.029	0.73	0.39	0.009	0.16	0.06	0.73	0.04	-0.19	-0.20	0.39	-0.16	7350	4.5
12	O047	C	-0.284	0.029	0.72	0.37	0.010	0.16	0.07	0.72	0.04	-0.16	-0.18	0.37	-0.16	7341	6.4
13	O047	C	-0.284	0.029	0.72	0.39	0.008	0.16	0.07	0.72	0.04	-0.18	-0.21	0.39	-0.17	7315	2.8
14	O047	C	-0.284	0.029	0.74	0.38	0.007	0.16	0.06	0.74	0.04	-0.19	-0.20	0.38	-0.15	7303	3.3
15	O047	C	-0.284	0.029	0.73	0.38	0.009	0.16	0.07	0.73	0.04	-0.18	-0.20	0.38	-0.17	7292	4.3
16	O047	C	-0.284	0.029	0.72	0.38	0.009	0.17	0.07	0.72	0.04	-0.19	-0.19	0.38	-0.17	7295	6.6
17	O047	C	-0.284	0.030	0.73	0.38	0.008	0.16	0.07	0.73	0.04	-0.17	-0.18	0.38	-0.20	7314	9.3
18	O047	C	-0.284	0.030	0.74	0.36	0.008	0.16	0.06	0.74	0.04	-0.17	-0.19	0.36	-0.16	7287	7.8
19	O047	C	-0.284	0.030	0.73	0.39	0.009	0.16	0.06	0.73	0.04	-0.19	-0.19	0.39	-0.19	7333	8.0
20	O047	C	-0.284	0.030	0.73	0.39	0.009	0.15	0.07	0.73	0.04	-0.20	-0.18	0.39	-0.19	7347	8.2
1	O048	C	-0.847	0.031	0.79	0.45	0.020	0.03	0.08	0.79	0.08	-0.20	-0.26	0.45	-0.09	7853	4.1
2	O048	C	-0.847	0.032	0.81	0.40	0.010	0.03	0.07	0.81	0.08	-0.22	-0.24	0.40	-0.11	7382	2.9
3	O048	C	-0.847	0.032	0.81	0.38	0.010	0.03	0.08	0.81	0.08	-0.19	-0.26	0.38	-0.09	7363	3.7
4	O048	C	-0.847	0.032	0.81	0.39	0.011	0.03	0.07	0.81	0.08	-0.22	-0.26	0.39	-0.11	7383	4.7
5	O048	C	-0.847	0.032	0.80	0.40	0.010	0.03	0.08	0.80	0.08	-0.23	-0.26	0.40	-0.11	7364	6.3
6	O048	C	-0.847	0.032	0.81	0.40	0.010	0.03	0.07	0.81	0.08	-0.21	-0.24	0.40	-0.11	7361	2.8
7	O048	C	-0.847	0.033	0.81	0.41	0.009	0.03	0.07	0.81	0.08	-0.24	-0.26	0.41	-0.10	7378	5.2
8	O048	C	-0.847	0.032	0.81	0.39	0.009	0.03	0.08	0.81	0.08	-0.20	-0.27	0.39	-0.09	7374	4.6
9	O048	C	-0.847	0.032	0.80	0.40	0.009	0.03	0.07	0.80	0.08	-0.22	-0.27	0.40	-0.10	7385	3.6
10	O048	C	-0.847	0.032	0.81	0.38	0.011	0.03	0.07	0.81	0.08	-0.22	-0.22	0.38	-0.11	7361	4.2
11	O048	C	-0.847	0.033	0.81	0.40	0.009	0.03	0.07	0.81	0.08	-0.22	-0.25	0.40	-0.10	7350	4.2
12	O048	C	-0.847	0.032	0.81	0.41	0.011	0.03	0.07	0.81	0.08	-0.23	-0.25	0.41	-0.10	7341	3.2
13	O048	C	-0.847	0.032	0.81	0.41	0.009	0.03	0.07	0.81	0.08	-0.22	-0.26	0.41	-0.12	7315	2.0
14	O048	C	-0.847	0.032	0.81	0.40	0.008	0.03	0.08	0.81	0.08	-0.21	-0.27	0.40	-0.11	7303	2.8
15	O048	C	-0.847	0.032	0.81	0.39	0.010	0.03	0.07	0.81	0.08	-0.23	-0.27	0.39	-0.09	7292	5.2
16	O048	C	-0.847	0.032	0.80	0.40	0.009	0.03	0.08	0.80	0.08	-0.20	-0.26	0.40	-0.12	7295	4.1
17	O048	C	-0.847	0.034	0.80	0.39	0.008	0.03	0.08	0.80	0.08	-0.23	-0.26	0.39	-0.10	7314	9.5
18	O048	C	-0.847	0.034	0.81	0.40	0.008	0.03	0.07	0.81	0.08	-0.24	-0.27	0.40	-0.10	7287	8.3
19	O048	C	-0.847	0.034	0.81	0.41	0.010	0.03	0.07	0.81	0.08	-0.21	-0.27	0.41	-0.12	7333	8.4
20	O048	C	-0.847	0.034	0.80	0.40	0.010	0.03	0.08	0.80	0.08	-0.22	-0.26	0.40	-0.11	7347	8.6
1	O049	A	-0.994	0.032	0.79	0.51	0.020	0.79	0.03	0.13	0.03	0.51	-0.21	-0.27	-0.18	7853	-0.5
2	O049	A	-0.994	0.033	0.82	0.44	0.008	0.82	0.02	0.12	0.03	0.44	-0.20	-0.27	-0.18	7382	-1.1
3	O049	A	-0.994	0.033	0.82	0.43	0.010	0.82	0.02	0.12	0.03	0.43	-0.19	-0.25	-0.20	7363	-2.1
4	O049	A	-0.994	0.034	0.83	0.43	0.010	0.83	0.02	0.12	0.03	0.43	-0.20	-0.25	-0.19	7383	-0.7
5	O049	A	-0.994	0.034	0.82	0.42	0.009	0.82	0.02	0.12	0.03	0.42	-0.19	-0.27	-0.16	7364	-0.7
6	O049	A	-0.994	0.034	0.83	0.43	0.010	0.83	0.02	0.12	0.03	0.43	-0.18	-0.26	-0.17	7361	-1.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O049	A	-0.994	0.034	0.82	0.46	0.009	0.82	0.02	0.12	0.03	0.46	-0.21	-0.27	-0.20	7378	-0.1
8	O049	A	-0.994	0.033	0.83	0.43	0.009	0.83	0.02	0.12	0.03	0.43	-0.19	-0.25	-0.20	7374	-1.9
9	O049	A	-0.994	0.033	0.83	0.42	0.009	0.83	0.02	0.12	0.03	0.42	-0.19	-0.25	-0.19	7385	-1.7
10	O049	A	-0.994	0.034	0.83	0.46	0.012	0.83	0.02	0.12	0.03	0.46	-0.17	-0.29	-0.19	7361	-3.7
11	O049	A	-0.994	0.034	0.83	0.43	0.008	0.83	0.02	0.11	0.03	0.43	-0.20	-0.25	-0.18	7350	-1.7
12	O049	A	-0.994	0.034	0.82	0.45	0.011	0.82	0.02	0.12	0.03	0.45	-0.20	-0.25	-0.20	7341	-1.4
13	O049	A	-0.994	0.033	0.83	0.43	0.009	0.83	0.02	0.12	0.02	0.43	-0.21	-0.25	-0.19	7315	-3.5
14	O049	A	-0.994	0.034	0.82	0.44	0.008	0.82	0.02	0.13	0.03	0.44	-0.18	-0.29	-0.18	7303	-1.6
15	O049	A	-0.994	0.034	0.83	0.44	0.010	0.83	0.02	0.12	0.03	0.44	-0.19	-0.28	-0.18	7292	-2.6
16	O049	A	-0.994	0.034	0.82	0.46	0.008	0.82	0.02	0.12	0.03	0.46	-0.23	-0.27	-0.19	7295	-2.7
17	O049	A	-0.994	0.036	0.83	0.43	0.008	0.83	0.02	0.12	0.03	0.43	-0.18	-0.26	-0.20	7314	2.5
18	O049	A	-0.994	0.035	0.83	0.41	0.008	0.83	0.02	0.12	0.02	0.41	-0.20	-0.25	-0.16	7287	2.3
19	O049	A	-0.994	0.035	0.82	0.43	0.010	0.82	0.02	0.13	0.03	0.43	-0.19	-0.28	-0.17	7333	3.4
20	O049	A	-0.994	0.036	0.82	0.45	0.010	0.82	0.02	0.11	0.03	0.45	-0.20	-0.28	-0.19	7347	2.2
1	O116	C	-2.199	0.044	0.91	0.54	0.014	0.03	0.03	0.91	0.02	-0.28	-0.24	0.54	-0.14	7853	-3.7
2	O116	C	-2.199	0.048	0.93	0.45	0.004	0.02	0.02	0.93	0.02	-0.29	-0.23	0.45	-0.15	7382	-3.3
3	O116	C	-2.199	0.048	0.92	0.46	0.005	0.02	0.03	0.92	0.02	-0.28	-0.24	0.46	-0.16	7363	-2.3
4	O116	C	-2.199	0.049	0.93	0.44	0.003	0.03	0.03	0.93	0.02	-0.26	-0.24	0.44	-0.16	7383	-1.9
5	O116	C	-2.199	0.049	0.92	0.46	0.004	0.03	0.03	0.92	0.02	-0.27	-0.24	0.46	-0.17	7364	-3.7
6	O116	C	-2.199	0.049	0.93	0.46	0.005	0.02	0.02	0.93	0.02	-0.26	-0.26	0.46	-0.15	7361	-3.9
7	O116	C	-2.199	0.049	0.93	0.44	0.004	0.02	0.02	0.93	0.02	-0.27	-0.26	0.44	-0.14	7378	-1.6
8	O116	C	-2.199	0.048	0.92	0.46	0.004	0.03	0.03	0.92	0.02	-0.28	-0.25	0.46	-0.15	7374	-3.9
9	O116	C	-2.199	0.048	0.92	0.44	0.004	0.02	0.03	0.92	0.02	-0.28	-0.25	0.44	-0.13	7385	-1.9
10	O116	C	-2.199	0.049	0.92	0.46	0.004	0.03	0.02	0.92	0.02	-0.27	-0.23	0.46	-0.18	7361	-3.1
11	O116	C	-2.199	0.049	0.93	0.45	0.005	0.02	0.02	0.93	0.02	-0.26	-0.24	0.45	-0.16	7350	-4.2
12	O116	C	-2.199	0.049	0.92	0.47	0.005	0.03	0.03	0.92	0.02	-0.27	-0.24	0.47	-0.16	7341	-3.3
13	O116	C	-2.199	0.048	0.93	0.47	0.004	0.02	0.03	0.93	0.02	-0.26	-0.27	0.47	-0.17	7315	-4.7
14	O116	C	-2.199	0.049	0.92	0.45	0.004	0.03	0.03	0.92	0.02	-0.26	-0.25	0.45	-0.15	7303	-2.3
15	O116	C	-2.199	0.049	0.92	0.43	0.004	0.03	0.03	0.92	0.02	-0.26	-0.24	0.43	-0.13	7292	-0.5
16	O116	C	-2.199	0.049	0.93	0.44	0.004	0.02	0.02	0.93	0.02	-0.27	-0.25	0.44	-0.15	7295	-3.1
17	O116	C	-2.199	0.053	0.92	0.46	0.004	0.03	0.03	0.92	0.02	-0.29	-0.27	0.46	-0.13	7314	1.1
18	O116	C	-2.199	0.052	0.93	0.43	0.004	0.02	0.02	0.93	0.02	-0.27	-0.23	0.43	-0.14	7287	-1.5
19	O116	C	-2.199	0.052	0.93	0.45	0.004	0.02	0.02	0.93	0.02	-0.26	-0.26	0.45	-0.16	7333	-0.8
20	O116	C	-2.199	0.053	0.93	0.44	0.004	0.03	0.03	0.93	0.02	-0.27	-0.26	0.44	-0.13	7347	0.1
1	O117	D	-2.399	0.048	0.90	0.60	0.014	0.01	0.04	0.04	0.90	-0.20	-0.30	-0.28	0.60	7853	-4.7
2	O117	D	-2.399	0.052	0.94	0.49	0.004	0.01	0.02	0.03	0.94	-0.20	-0.25	-0.30	0.49	7382	-6.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O117	D	-2.399	0.052	0.94	0.48	0.005	0.01	0.02	0.03	0.94	-0.17	-0.22	-0.29	0.48	7363	-6.5
4	O117	D	-2.399	0.053	0.94	0.47	0.003	0.01	0.02	0.03	0.94	-0.19	-0.26	-0.27	0.47	7383	-6.0
5	O117	D	-2.399	0.053	0.93	0.49	0.004	0.01	0.02	0.03	0.93	-0.20	-0.24	-0.31	0.49	7364	-6.8
6	O117	D	-2.399	0.053	0.93	0.50	0.005	0.01	0.02	0.03	0.93	-0.18	-0.24	-0.31	0.50	7361	-6.0
7	O117	D	-2.399	0.053	0.93	0.50	0.004	0.01	0.02	0.03	0.93	-0.19	-0.27	-0.30	0.50	7378	-4.8
8	O117	D	-2.399	0.052	0.93	0.49	0.004	0.01	0.02	0.03	0.93	-0.19	-0.24	-0.31	0.49	7374	-5.9
9	O117	D	-2.399	0.052	0.94	0.45	0.004	0.01	0.02	0.03	0.94	-0.19	-0.24	-0.26	0.45	7385	-5.6
10	O117	D	-2.399	0.053	0.94	0.48	0.004	0.01	0.02	0.03	0.94	-0.19	-0.25	-0.28	0.48	7361	-6.3
11	O117	D	-2.399	0.053	0.93	0.50	0.004	0.01	0.02	0.03	0.93	-0.18	-0.26	-0.30	0.50	7350	-5.9
12	O117	D	-2.399	0.053	0.94	0.48	0.005	0.01	0.02	0.03	0.94	-0.21	-0.22	-0.28	0.48	7341	-5.9
13	O117	D	-2.399	0.052	0.93	0.51	0.004	0.01	0.02	0.03	0.93	-0.22	-0.27	-0.28	0.51	7315	-7.2
14	O117	D	-2.399	0.052	0.94	0.47	0.004	0.01	0.02	0.03	0.94	-0.18	-0.23	-0.29	0.47	7303	-7.3
15	O117	D	-2.399	0.053	0.94	0.47	0.004	0.01	0.02	0.03	0.94	-0.18	-0.24	-0.28	0.47	7292	-5.6
16	O117	D	-2.399	0.052	0.93	0.47	0.004	0.01	0.02	0.03	0.93	-0.18	-0.20	-0.31	0.47	7295	-5.1
17	O117	D	-2.399	0.057	0.94	0.48	0.004	0.01	0.02	0.03	0.94	-0.19	-0.23	-0.30	0.48	7314	-1.7
18	O117	D	-2.399	0.056	0.94	0.50	0.004	0.01	0.02	0.03	0.94	-0.20	-0.24	-0.32	0.50	7287	-4.9
19	O117	D	-2.399	0.056	0.94	0.48	0.004	0.01	0.02	0.03	0.94	-0.20	-0.26	-0.28	0.48	7333	-3.5
20	O117	D	-2.399	0.057	0.94	0.48	0.004	0.01	0.02	0.03	0.94	-0.18	-0.24	-0.29	0.48	7347	-3.8
1	O118	C	0.917	0.025	0.54	0.22	0.015	0.05	0.08	0.54	0.32	-0.26	-0.13	0.22	0.07	7853	9.9
2	O118	C	0.917	0.026	0.51	0.12	0.004	0.05	0.06	0.51	0.39	-0.27	-0.11	0.12	0.08	7382	9.9
3	O118	C	0.917	0.026	0.49	0.11	0.005	0.04	0.06	0.49	0.41	-0.27	-0.14	0.11	0.11	7363	9.9
4	O118	C	0.917	0.026	0.54	0.14	0.004	0.04	0.07	0.54	0.34	-0.25	-0.12	0.14	0.05	7383	9.9
5	O118	C	0.917	0.025	0.58	0.19	0.004	0.04	0.07	0.58	0.31	-0.28	-0.09	0.19	0.00	7364	9.9
6	O118	C	0.917	0.026	0.57	0.15	0.005	0.04	0.06	0.57	0.32	-0.24	-0.10	0.15	0.04	7361	9.9
7	O118	C	0.917	0.026	0.51	0.12	0.004	0.04	0.06	0.51	0.38	-0.26	-0.16	0.12	0.09	7378	9.9
8	O118	C	0.917	0.026	0.50	0.11	0.004	0.04	0.06	0.50	0.41	-0.28	-0.17	0.11	0.10	7374	9.9
9	O118	C	0.917	0.025	0.49	0.11	0.004	0.04	0.06	0.49	0.40	-0.28	-0.13	0.11	0.10	7385	9.9
10	O118	C	0.917	0.025	0.57	0.16	0.005	0.04	0.07	0.57	0.32	-0.24	-0.11	0.16	0.03	7361	9.9
11	O118	C	0.917	0.026	0.56	0.14	0.005	0.05	0.07	0.56	0.32	-0.26	-0.11	0.14	0.07	7350	9.9
12	O118	C	0.917	0.026	0.51	0.11	0.006	0.04	0.06	0.51	0.39	-0.22	-0.12	0.11	0.07	7341	9.9
13	O118	C	0.917	0.026	0.50	0.10	0.005	0.04	0.06	0.50	0.40	-0.27	-0.14	0.10	0.11	7315	9.9
14	O118	C	0.917	0.026	0.54	0.10	0.005	0.04	0.07	0.54	0.34	-0.22	-0.10	0.10	0.08	7303	9.9
15	O118	C	0.917	0.026	0.55	0.12	0.005	0.04	0.07	0.55	0.33	-0.24	-0.09	0.12	0.06	7292	9.9
16	O118	C	0.917	0.026	0.56	0.16	0.004	0.04	0.07	0.56	0.32	-0.27	-0.11	0.16	0.03	7295	9.9
17	O118	C	0.917	0.026	0.51	0.10	0.004	0.04	0.06	0.51	0.39	-0.23	-0.16	0.10	0.10	7314	9.9
18	O118	C	0.917	0.026	0.50	0.13	0.005	0.04	0.06	0.50	0.40	-0.26	-0.15	0.13	0.08	7287	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O118	C	0.917	0.026	0.55	0.14	0.004	0.04	0.07	0.55	0.33	-0.24	-0.08	0.14	0.04	7333	9.9
20	O118	C	0.917	0.026	0.55	0.15	0.005	0.05	0.07	0.55	0.33	-0.23	-0.13	0.15	0.05	7347	9.9
1	O119	A	0.166	0.026	0.64	0.44	0.015	0.64	0.10	0.06	0.19	0.44	-0.19	-0.26	-0.11	7853	2.3
2	O119	A	0.166	0.027	0.66	0.38	0.006	0.66	0.10	0.05	0.18	0.38	-0.21	-0.23	-0.13	7382	4.7
3	O119	A	0.166	0.027	0.65	0.38	0.007	0.65	0.12	0.06	0.17	0.38	-0.21	-0.24	-0.10	7363	5.7
4	O119	A	0.166	0.027	0.66	0.41	0.005	0.66	0.10	0.05	0.18	0.41	-0.22	-0.24	-0.15	7383	3.6
5	O119	A	0.166	0.027	0.66	0.39	0.004	0.66	0.10	0.06	0.18	0.39	-0.21	-0.25	-0.13	7364	2.1
6	O119	A	0.166	0.027	0.69	0.38	0.006	0.69	0.09	0.05	0.16	0.38	-0.21	-0.24	-0.11	7361	1.2
7	O119	A	0.166	0.027	0.67	0.38	0.004	0.67	0.10	0.06	0.17	0.38	-0.22	-0.24	-0.12	7378	4.1
8	O119	A	0.166	0.027	0.67	0.39	0.004	0.67	0.10	0.05	0.17	0.39	-0.22	-0.26	-0.12	7374	3.9
9	O119	A	0.166	0.027	0.66	0.38	0.005	0.66	0.10	0.06	0.18	0.38	-0.22	-0.22	-0.13	7385	3.7
10	O119	A	0.166	0.027	0.66	0.38	0.005	0.66	0.10	0.06	0.18	0.38	-0.20	-0.26	-0.12	7361	3.1
11	O119	A	0.166	0.027	0.66	0.41	0.005	0.66	0.10	0.06	0.18	0.41	-0.23	-0.24	-0.13	7350	3.7
12	O119	A	0.166	0.027	0.67	0.37	0.006	0.67	0.11	0.05	0.16	0.37	-0.22	-0.22	-0.10	7341	4.0
13	O119	A	0.166	0.027	0.67	0.38	0.005	0.67	0.10	0.06	0.17	0.38	-0.23	-0.24	-0.11	7315	3.2
14	O119	A	0.166	0.027	0.66	0.39	0.005	0.66	0.10	0.05	0.18	0.39	-0.20	-0.24	-0.13	7303	3.2
15	O119	A	0.166	0.027	0.66	0.37	0.007	0.66	0.10	0.05	0.18	0.37	-0.22	-0.23	-0.11	7292	5.1
16	O119	A	0.166	0.027	0.67	0.41	0.005	0.67	0.11	0.06	0.16	0.41	-0.25	-0.23	-0.13	7295	2.3
17	O119	A	0.166	0.028	0.65	0.38	0.005	0.65	0.10	0.06	0.19	0.38	-0.22	-0.22	-0.13	7314	8.8
18	O119	A	0.166	0.028	0.66	0.40	0.005	0.66	0.11	0.06	0.17	0.40	-0.23	-0.26	-0.11	7287	4.7
19	O119	A	0.166	0.028	0.65	0.38	0.005	0.65	0.11	0.06	0.18	0.38	-0.23	-0.23	-0.10	7333	8.7
20	O119	A	0.166	0.028	0.66	0.39	0.005	0.66	0.10	0.06	0.18	0.39	-0.21	-0.26	-0.12	7347	7.6
1	O120	C	-0.020	0.027	0.68	0.36	0.015	0.18	0.06	0.68	0.07	-0.10	-0.22	0.36	-0.12	7853	9.9
2	O120	C	-0.020	0.028	0.69	0.31	0.004	0.20	0.05	0.69	0.06	-0.12	-0.24	0.31	-0.13	7382	9.9
3	O120	C	-0.020	0.027	0.70	0.32	0.006	0.20	0.05	0.70	0.05	-0.10	-0.24	0.32	-0.16	7363	9.6
4	O120	C	-0.020	0.028	0.70	0.31	0.004	0.19	0.05	0.70	0.06	-0.12	-0.24	0.31	-0.12	7383	9.9
5	O120	C	-0.020	0.027	0.67	0.28	0.004	0.21	0.06	0.67	0.06	-0.08	-0.21	0.28	-0.13	7364	9.9
6	O120	C	-0.020	0.028	0.70	0.32	0.005	0.18	0.05	0.70	0.07	-0.10	-0.22	0.32	-0.16	7361	9.9
7	O120	C	-0.020	0.028	0.70	0.33	0.004	0.18	0.05	0.70	0.06	-0.11	-0.25	0.33	-0.17	7378	9.9
8	O120	C	-0.020	0.028	0.69	0.32	0.004	0.20	0.05	0.69	0.06	-0.10	-0.25	0.32	-0.16	7374	9.9
9	O120	C	-0.020	0.027	0.72	0.32	0.004	0.17	0.05	0.72	0.06	-0.12	-0.24	0.32	-0.15	7385	8.2
10	O120	C	-0.020	0.027	0.68	0.31	0.004	0.20	0.05	0.68	0.06	-0.09	-0.22	0.31	-0.16	7361	9.9
11	O120	C	-0.020	0.028	0.70	0.33	0.005	0.19	0.05	0.70	0.06	-0.12	-0.23	0.33	-0.15	7350	9.9
12	O120	C	-0.020	0.028	0.70	0.32	0.005	0.18	0.05	0.70	0.06	-0.11	-0.22	0.32	-0.15	7341	9.7
13	O120	C	-0.020	0.027	0.70	0.32	0.005	0.18	0.06	0.70	0.06	-0.10	-0.21	0.32	-0.18	7315	8.4
14	O120	C	-0.020	0.028	0.71	0.30	0.004	0.18	0.05	0.71	0.06	-0.12	-0.21	0.30	-0.13	7303	8.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O120	C	-0.020	0.028	0.66	0.29	0.005	0.21	0.06	0.66	0.07	-0.08	-0.22	0.29	-0.15	7292	9.9
16	O120	C	-0.020	0.028	0.71	0.30	0.004	0.18	0.04	0.71	0.06	-0.11	-0.22	0.30	-0.14	7295	9.9
17	O120	C	-0.020	0.029	0.70	0.31	0.005	0.19	0.05	0.70	0.06	-0.10	-0.22	0.31	-0.15	7314	9.9
18	O120	C	-0.020	0.029	0.68	0.32	0.005	0.21	0.05	0.68	0.06	-0.11	-0.24	0.32	-0.15	7287	9.9
19	O120	C	-0.020	0.029	0.70	0.35	0.004	0.18	0.05	0.70	0.06	-0.13	-0.25	0.35	-0.15	7333	9.9
20	O120	C	-0.020	0.029	0.66	0.31	0.004	0.21	0.06	0.66	0.07	-0.10	-0.24	0.31	-0.15	7347	9.9
1	O121	B	-1.219	0.033	0.82	0.59	0.016	0.08	0.82	0.03	0.05	-0.27	0.59	-0.27	-0.24	7853	-5.9
2	O121	B	-1.219	0.036	0.85	0.52	0.005	0.07	0.85	0.03	0.05	-0.28	0.52	-0.25	-0.28	7382	-5.2
3	O121	B	-1.219	0.035	0.85	0.52	0.006	0.07	0.85	0.03	0.05	-0.25	0.52	-0.27	-0.27	7363	-5.0
4	O121	B	-1.219	0.036	0.85	0.52	0.005	0.07	0.85	0.03	0.05	-0.27	0.52	-0.27	-0.27	7383	-5.6
5	O121	B	-1.219	0.036	0.85	0.51	0.006	0.07	0.85	0.03	0.05	-0.25	0.51	-0.22	-0.31	7364	-4.7
6	O121	B	-1.219	0.036	0.85	0.50	0.007	0.07	0.85	0.03	0.05	-0.23	0.50	-0.28	-0.26	7361	-3.9
7	O121	B	-1.219	0.036	0.85	0.51	0.005	0.07	0.85	0.03	0.04	-0.27	0.51	-0.26	-0.27	7378	-3.6
8	O121	B	-1.219	0.035	0.85	0.51	0.005	0.07	0.85	0.03	0.05	-0.26	0.51	-0.26	-0.28	7374	-3.8
9	O121	B	-1.219	0.035	0.85	0.50	0.005	0.07	0.85	0.03	0.05	-0.27	0.50	-0.25	-0.27	7385	-5.7
10	O121	B	-1.219	0.036	0.85	0.51	0.005	0.07	0.85	0.03	0.05	-0.26	0.51	-0.25	-0.27	7361	-4.6
11	O121	B	-1.219	0.036	0.85	0.51	0.006	0.08	0.85	0.03	0.05	-0.26	0.51	-0.25	-0.26	7350	-3.1
12	O121	B	-1.219	0.036	0.86	0.52	0.006	0.06	0.86	0.03	0.05	-0.24	0.52	-0.24	-0.30	7341	-6.8
13	O121	B	-1.219	0.035	0.84	0.52	0.006	0.08	0.84	0.03	0.05	-0.26	0.52	-0.25	-0.29	7315	-5.2
14	O121	B	-1.219	0.036	0.85	0.50	0.006	0.07	0.85	0.03	0.05	-0.25	0.50	-0.25	-0.28	7303	-4.9
15	O121	B	-1.219	0.036	0.85	0.51	0.005	0.07	0.85	0.03	0.05	-0.26	0.51	-0.26	-0.27	7292	-4.3
16	O121	B	-1.219	0.036	0.85	0.51	0.005	0.07	0.85	0.02	0.05	-0.27	0.51	-0.25	-0.27	7295	-6.1
17	O121	B	-1.219	0.038	0.85	0.51	0.006	0.07	0.85	0.03	0.04	-0.28	0.51	-0.24	-0.26	7314	-2.3
18	O121	B	-1.219	0.038	0.85	0.51	0.006	0.07	0.85	0.03	0.05	-0.26	0.51	-0.27	-0.26	7287	-2.0
19	O121	B	-1.219	0.038	0.85	0.51	0.005	0.07	0.85	0.03	0.05	-0.26	0.51	-0.28	-0.27	7333	-1.2
20	O121	B	-1.219	0.038	0.85	0.51	0.006	0.07	0.85	0.03	0.05	-0.25	0.51	-0.26	-0.28	7347	0.4
1	O122	C	-1.923	0.041	0.88	0.58	0.015	0.04	0.03	0.88	0.03	-0.30	-0.25	0.58	-0.20	7853	-6.6
2	O122	C	-1.923	0.044	0.91	0.50	0.004	0.04	0.03	0.91	0.03	-0.30	-0.27	0.50	-0.21	7382	-5.9
3	O122	C	-1.923	0.044	0.90	0.52	0.007	0.04	0.02	0.90	0.03	-0.31	-0.25	0.52	-0.21	7363	-6.4
4	O122	C	-1.923	0.045	0.92	0.50	0.005	0.03	0.02	0.92	0.03	-0.29	-0.27	0.50	-0.20	7383	-7.1
5	O122	C	-1.923	0.045	0.90	0.49	0.004	0.03	0.03	0.90	0.03	-0.26	-0.27	0.49	-0.22	7364	-5.1
6	O122	C	-1.923	0.044	0.92	0.47	0.005	0.03	0.03	0.92	0.02	-0.27	-0.24	0.47	-0.18	7361	-5.2
7	O122	C	-1.923	0.045	0.91	0.50	0.004	0.03	0.03	0.91	0.03	-0.29	-0.27	0.50	-0.21	7378	-3.7
8	O122	C	-1.923	0.044	0.91	0.49	0.004	0.03	0.03	0.91	0.03	-0.29	-0.25	0.49	-0.21	7374	-5.6
9	O122	C	-1.923	0.044	0.91	0.49	0.005	0.03	0.03	0.91	0.03	-0.28	-0.25	0.49	-0.22	7385	-6.1
10	O122	C	-1.923	0.045	0.91	0.50	0.005	0.03	0.03	0.91	0.03	-0.29	-0.25	0.50	-0.22	7361	-6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O122	C	-1.923	0.044	0.91	0.50	0.006	0.04	0.02	0.91	0.03	-0.29	-0.23	0.50	-0.22	7350	-5.5
12	O122	C	-1.923	0.044	0.91	0.51	0.006	0.03	0.03	0.91	0.03	-0.27	-0.27	0.51	-0.21	7341	-6.2
13	O122	C	-1.923	0.044	0.91	0.51	0.005	0.03	0.03	0.91	0.03	-0.27	-0.28	0.51	-0.22	7315	-6.4
14	O122	C	-1.923	0.044	0.91	0.48	0.005	0.03	0.02	0.91	0.02	-0.29	-0.25	0.48	-0.17	7303	-6.0
15	O122	C	-1.923	0.045	0.91	0.48	0.005	0.03	0.03	0.91	0.03	-0.27	-0.26	0.48	-0.20	7292	-6.4
16	O122	C	-1.923	0.044	0.91	0.49	0.005	0.03	0.02	0.91	0.03	-0.30	-0.24	0.49	-0.19	7295	-6.6
17	O122	C	-1.923	0.048	0.91	0.50	0.005	0.04	0.03	0.91	0.03	-0.27	-0.29	0.50	-0.20	7314	-2.4
18	O122	C	-1.923	0.047	0.90	0.51	0.005	0.04	0.02	0.90	0.03	-0.30	-0.25	0.51	-0.22	7287	-2.8
19	O122	C	-1.923	0.047	0.91	0.50	0.005	0.03	0.03	0.91	0.03	-0.28	-0.28	0.50	-0.21	7333	-4.5
20	O122	C	-1.923	0.048	0.91	0.49	0.005	0.04	0.03	0.91	0.03	-0.29	-0.26	0.49	-0.20	7347	-2.6
1	O123	A	-1.611	0.037	0.86	0.57	0.015	0.86	0.05	0.06	0.02	0.57	-0.25	-0.30	-0.18	7853	-5.2
2	O123	A	-1.611	0.040	0.88	0.52	0.005	0.88	0.05	0.05	0.01	0.52	-0.27	-0.32	-0.21	7382	-4.9
3	O123	A	-1.611	0.039	0.88	0.52	0.007	0.88	0.05	0.05	0.02	0.52	-0.27	-0.30	-0.19	7363	-6.0
4	O123	A	-1.611	0.040	0.89	0.48	0.005	0.89	0.05	0.05	0.01	0.48	-0.25	-0.30	-0.17	7383	-5.0
5	O123	A	-1.611	0.040	0.88	0.49	0.005	0.88	0.05	0.05	0.01	0.49	-0.26	-0.31	-0.17	7364	-5.8
6	O123	A	-1.611	0.040	0.89	0.51	0.005	0.89	0.05	0.04	0.01	0.51	-0.27	-0.29	-0.19	7361	-7.9
7	O123	A	-1.611	0.040	0.88	0.49	0.004	0.88	0.05	0.05	0.02	0.49	-0.26	-0.28	-0.21	7378	-3.5
8	O123	A	-1.611	0.040	0.89	0.50	0.004	0.89	0.05	0.04	0.01	0.50	-0.29	-0.28	-0.20	7374	-6.1
9	O123	A	-1.611	0.040	0.88	0.50	0.005	0.88	0.05	0.05	0.01	0.50	-0.26	-0.31	-0.20	7385	-6.4
10	O123	A	-1.611	0.040	0.88	0.50	0.005	0.88	0.05	0.05	0.01	0.50	-0.27	-0.29	-0.18	7361	-5.4
11	O123	A	-1.611	0.040	0.89	0.51	0.006	0.89	0.05	0.05	0.02	0.51	-0.26	-0.32	-0.18	7350	-5.8
12	O123	A	-1.611	0.040	0.89	0.51	0.006	0.89	0.05	0.05	0.01	0.51	-0.26	-0.30	-0.20	7341	-6.3
13	O123	A	-1.611	0.040	0.88	0.52	0.005	0.88	0.05	0.05	0.02	0.52	-0.28	-0.29	-0.21	7315	-5.7
14	O123	A	-1.611	0.040	0.89	0.50	0.005	0.89	0.05	0.05	0.01	0.50	-0.26	-0.31	-0.19	7303	-5.7
15	O123	A	-1.611	0.040	0.89	0.51	0.005	0.89	0.05	0.04	0.01	0.51	-0.28	-0.30	-0.18	7292	-7.2
16	O123	A	-1.611	0.040	0.89	0.49	0.005	0.89	0.05	0.04	0.02	0.49	-0.26	-0.28	-0.21	7295	-6.3
17	O123	A	-1.611	0.043	0.88	0.48	0.006	0.88	0.05	0.05	0.02	0.48	-0.26	-0.27	-0.19	7314	-1.0
18	O123	A	-1.611	0.043	0.88	0.50	0.005	0.88	0.05	0.05	0.01	0.50	-0.26	-0.29	-0.20	7287	-2.9
19	O123	A	-1.611	0.042	0.89	0.49	0.005	0.89	0.05	0.05	0.02	0.49	-0.25	-0.30	-0.21	7333	-3.2
20	O123	A	-1.611	0.043	0.89	0.50	0.005	0.89	0.05	0.05	0.01	0.50	-0.28	-0.29	-0.18	7347	-3.1
1	O124	D	-0.669	0.030	0.75	0.61	0.016	0.06	0.05	0.13	0.75	-0.32	-0.27	-0.24	0.61	7853	-7.1
2	O124	D	-0.669	0.031	0.78	0.55	0.005	0.05	0.04	0.13	0.78	-0.33	-0.31	-0.24	0.55	7382	-7.7
3	O124	D	-0.669	0.031	0.79	0.56	0.008	0.05	0.04	0.12	0.79	-0.32	-0.27	-0.25	0.56	7363	-8.3
4	O124	D	-0.669	0.031	0.78	0.55	0.006	0.05	0.04	0.13	0.78	-0.32	-0.29	-0.26	0.55	7383	-6.3
5	O124	D	-0.669	0.031	0.78	0.54	0.005	0.05	0.04	0.13	0.78	-0.34	-0.26	-0.25	0.54	7364	-7.2
6	O124	D	-0.669	0.031	0.78	0.55	0.006	0.05	0.04	0.13	0.78	-0.30	-0.26	-0.28	0.55	7361	-7.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O124	D	-0.669	0.031	0.77	0.56	0.005	0.05	0.04	0.13	0.77	-0.34	-0.30	-0.24	0.56	7378	-6.1
8	O124	D	-0.669	0.031	0.78	0.55	0.005	0.05	0.04	0.13	0.78	-0.31	-0.28	-0.28	0.55	7374	-7.2
9	O124	D	-0.669	0.031	0.78	0.55	0.006	0.05	0.04	0.13	0.78	-0.32	-0.29	-0.26	0.55	7385	-7.7
10	O124	D	-0.669	0.031	0.78	0.56	0.006	0.05	0.04	0.13	0.78	-0.33	-0.27	-0.27	0.56	7361	-7.8
11	O124	D	-0.669	0.031	0.78	0.56	0.006	0.05	0.04	0.12	0.78	-0.35	-0.27	-0.26	0.56	7350	-7.0
12	O124	D	-0.669	0.031	0.77	0.55	0.007	0.05	0.04	0.13	0.77	-0.31	-0.27	-0.26	0.55	7341	-6.3
13	O124	D	-0.669	0.031	0.78	0.55	0.005	0.05	0.04	0.14	0.78	-0.33	-0.29	-0.25	0.55	7315	-6.9
14	O124	D	-0.669	0.031	0.79	0.54	0.006	0.05	0.03	0.13	0.79	-0.33	-0.27	-0.25	0.54	7303	-7.0
15	O124	D	-0.669	0.031	0.77	0.54	0.006	0.05	0.04	0.13	0.77	-0.32	-0.27	-0.26	0.54	7292	-6.3
16	O124	D	-0.669	0.031	0.78	0.55	0.005	0.05	0.04	0.12	0.78	-0.33	-0.30	-0.25	0.55	7295	-7.4
17	O124	D	-0.669	0.033	0.77	0.55	0.006	0.05	0.04	0.13	0.77	-0.30	-0.28	-0.26	0.55	7314	-1.8
18	O124	D	-0.669	0.033	0.78	0.54	0.006	0.05	0.04	0.13	0.78	-0.33	-0.28	-0.24	0.54	7287	-2.8
19	O124	D	-0.669	0.033	0.78	0.55	0.005	0.05	0.04	0.13	0.78	-0.33	-0.26	-0.27	0.55	7333	-4.0
20	O124	D	-0.669	0.033	0.78	0.57	0.007	0.05	0.04	0.13	0.78	-0.34	-0.27	-0.27	0.57	7347	-3.8
1	O125	A	-0.060	0.027	0.65	0.51	0.017	0.65	0.07	0.18	0.09	0.51	-0.24	-0.20	-0.19	7853	-1.6
2	O125	A	-0.060	0.028	0.70	0.50	0.006	0.70	0.06	0.16	0.07	0.50	-0.27	-0.24	-0.24	7382	-6.5
3	O125	A	-0.060	0.028	0.70	0.50	0.008	0.70	0.06	0.16	0.07	0.50	-0.26	-0.25	-0.21	7363	-6.6
4	O125	A	-0.060	0.028	0.68	0.50	0.007	0.68	0.06	0.16	0.09	0.50	-0.25	-0.26	-0.21	7383	-3.2
5	O125	A	-0.060	0.028	0.69	0.48	0.006	0.69	0.06	0.16	0.09	0.48	-0.21	-0.25	-0.23	7364	-3.9
6	O125	A	-0.060	0.028	0.69	0.48	0.007	0.69	0.06	0.16	0.09	0.48	-0.25	-0.24	-0.20	7361	-4.5
7	O125	A	-0.060	0.028	0.69	0.49	0.006	0.69	0.06	0.16	0.08	0.49	-0.24	-0.24	-0.24	7378	-2.8
8	O125	A	-0.060	0.028	0.68	0.50	0.005	0.68	0.06	0.17	0.08	0.50	-0.25	-0.27	-0.21	7374	-4.0
9	O125	A	-0.060	0.028	0.69	0.50	0.006	0.69	0.06	0.16	0.08	0.50	-0.26	-0.25	-0.22	7385	-6.1
10	O125	A	-0.060	0.028	0.68	0.48	0.006	0.68	0.06	0.17	0.09	0.48	-0.24	-0.23	-0.21	7361	-2.9
11	O125	A	-0.060	0.028	0.68	0.48	0.007	0.68	0.06	0.17	0.08	0.48	-0.27	-0.23	-0.20	7350	-1.4
12	O125	A	-0.060	0.028	0.68	0.47	0.007	0.68	0.06	0.17	0.08	0.47	-0.23	-0.24	-0.19	7341	-1.8
13	O125	A	-0.060	0.028	0.67	0.47	0.005	0.67	0.06	0.18	0.09	0.47	-0.23	-0.23	-0.23	7315	-3.0
14	O125	A	-0.060	0.028	0.69	0.47	0.006	0.69	0.06	0.16	0.09	0.47	-0.25	-0.23	-0.21	7303	-3.8
15	O125	A	-0.060	0.028	0.68	0.48	0.006	0.68	0.06	0.17	0.08	0.48	-0.26	-0.25	-0.19	7292	-3.2
16	O125	A	-0.060	0.028	0.68	0.47	0.007	0.68	0.06	0.17	0.08	0.47	-0.26	-0.23	-0.21	7295	-1.5
17	O125	A	-0.060	0.029	0.68	0.48	0.007	0.68	0.07	0.17	0.08	0.48	-0.25	-0.24	-0.20	7314	1.4
18	O125	A	-0.060	0.029	0.69	0.48	0.007	0.69	0.06	0.16	0.08	0.48	-0.20	-0.25	-0.23	7287	-0.7
19	O125	A	-0.060	0.029	0.69	0.48	0.006	0.69	0.06	0.17	0.08	0.48	-0.27	-0.24	-0.19	7333	0.9
20	O125	A	-0.060	0.029	0.68	0.50	0.007	0.68	0.06	0.17	0.09	0.50	-0.27	-0.24	-0.23	7347	-0.0
1	O126	A	-1.771	0.039	0.87	0.61	0.016	0.87	0.04	0.05	0.03	0.61	-0.27	-0.29	-0.26	7853	-7.9
2	O126	A	-1.771	0.042	0.90	0.54	0.006	0.90	0.03	0.05	0.02	0.54	-0.28	-0.29	-0.28	7382	-7.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O126	A	-1.771	0.041	0.89	0.54	0.008	0.89	0.03	0.05	0.02	0.54	-0.27	-0.28	-0.28	7363	-7.7
4	O126	A	-1.771	0.042	0.90	0.53	0.006	0.90	0.03	0.04	0.02	0.53	-0.27	-0.26	-0.29	7383	-7.3
5	O126	A	-1.771	0.042	0.90	0.53	0.005	0.90	0.03	0.04	0.02	0.53	-0.26	-0.27	-0.29	7364	-7.9
6	O126	A	-1.771	0.042	0.90	0.54	0.006	0.90	0.04	0.04	0.02	0.54	-0.28	-0.26	-0.28	7361	-7.4
7	O126	A	-1.771	0.043	0.90	0.54	0.005	0.90	0.03	0.05	0.02	0.54	-0.26	-0.29	-0.30	7378	-6.4
8	O126	A	-1.771	0.042	0.90	0.52	0.005	0.90	0.03	0.04	0.02	0.52	-0.27	-0.26	-0.29	7374	-7.7
9	O126	A	-1.771	0.042	0.90	0.51	0.006	0.90	0.03	0.04	0.02	0.51	-0.26	-0.26	-0.27	7385	-8.7
10	O126	A	-1.771	0.043	0.90	0.53	0.006	0.90	0.03	0.04	0.02	0.53	-0.25	-0.28	-0.27	7361	-6.4
11	O126	A	-1.771	0.042	0.90	0.53	0.007	0.90	0.03	0.04	0.02	0.53	-0.27	-0.27	-0.26	7350	-7.3
12	O126	A	-1.771	0.042	0.90	0.53	0.007	0.90	0.03	0.04	0.02	0.53	-0.27	-0.26	-0.28	7341	-8.4
13	O126	A	-1.771	0.042	0.90	0.54	0.006	0.90	0.03	0.04	0.02	0.54	-0.28	-0.26	-0.30	7315	-8.5
14	O126	A	-1.771	0.042	0.90	0.54	0.006	0.90	0.03	0.05	0.02	0.54	-0.27	-0.30	-0.27	7303	-8.5
15	O126	A	-1.771	0.042	0.90	0.51	0.006	0.90	0.03	0.04	0.02	0.51	-0.27	-0.26	-0.27	7292	-6.4
16	O126	A	-1.771	0.042	0.89	0.54	0.006	0.89	0.03	0.05	0.02	0.54	-0.29	-0.28	-0.28	7295	-6.4
17	O126	A	-1.771	0.045	0.90	0.53	0.006	0.90	0.03	0.04	0.02	0.53	-0.25	-0.26	-0.30	7314	-4.9
18	O126	A	-1.771	0.045	0.90	0.52	0.006	0.90	0.03	0.04	0.02	0.52	-0.26	-0.27	-0.28	7287	-5.9
19	O126	A	-1.771	0.045	0.90	0.53	0.006	0.90	0.03	0.04	0.02	0.53	-0.26	-0.29	-0.27	7333	-4.7
20	O126	A	-1.771	0.045	0.89	0.55	0.007	0.89	0.04	0.04	0.02	0.55	-0.28	-0.30	-0.28	7347	-4.9
1	O128	A	-0.601	0.029	0.75	0.49	0.019	0.75	0.05	0.07	0.11	0.49	-0.24	-0.22	-0.17	7853	-0.4
2	O128	A	-0.601	0.031	0.78	0.46	0.010	0.78	0.04	0.06	0.12	0.46	-0.23	-0.20	-0.26	7382	-1.9
3	O128	A	-0.601	0.030	0.77	0.46	0.010	0.77	0.04	0.06	0.12	0.46	-0.22	-0.19	-0.24	7363	-2.6
4	O128	A	-0.601	0.031	0.77	0.46	0.008	0.77	0.04	0.06	0.12	0.46	-0.21	-0.22	-0.25	7383	-0.6
5	O128	A	-0.601	0.031	0.78	0.43	0.009	0.78	0.04	0.06	0.11	0.43	-0.19	-0.21	-0.23	7364	-1.3
6	O128	A	-0.601	0.031	0.77	0.45	0.011	0.77	0.04	0.06	0.12	0.45	-0.22	-0.20	-0.23	7361	-1.4
7	O128	A	-0.601	0.031	0.77	0.46	0.011	0.77	0.04	0.06	0.12	0.46	-0.24	-0.20	-0.24	7378	-1.8
8	O128	A	-0.601	0.031	0.77	0.45	0.010	0.77	0.04	0.06	0.12	0.45	-0.25	-0.19	-0.23	7374	-1.5
9	O128	A	-0.601	0.030	0.78	0.44	0.010	0.78	0.04	0.06	0.11	0.44	-0.21	-0.19	-0.24	7385	-1.7
10	O128	A	-0.601	0.031	0.78	0.45	0.012	0.78	0.04	0.06	0.12	0.45	-0.23	-0.19	-0.24	7361	-2.5
11	O128	A	-0.601	0.031	0.78	0.45	0.011	0.78	0.04	0.06	0.12	0.45	-0.21	-0.19	-0.25	7350	-1.0
12	O128	A	-0.601	0.031	0.78	0.46	0.012	0.78	0.04	0.06	0.11	0.46	-0.19	-0.22	-0.24	7341	-3.8
13	O128	A	-0.601	0.030	0.79	0.45	0.010	0.79	0.04	0.06	0.11	0.45	-0.22	-0.21	-0.22	7315	-3.9
14	O128	A	-0.601	0.031	0.78	0.45	0.008	0.78	0.04	0.06	0.11	0.45	-0.21	-0.23	-0.22	7303	-2.5
15	O128	A	-0.601	0.031	0.78	0.43	0.011	0.78	0.04	0.06	0.11	0.43	-0.19	-0.19	-0.23	7292	-1.2
16	O128	A	-0.601	0.031	0.78	0.45	0.010	0.78	0.04	0.06	0.11	0.45	-0.23	-0.19	-0.24	7295	-1.6
17	O128	A	-0.601	0.032	0.77	0.46	0.011	0.77	0.05	0.06	0.11	0.46	-0.23	-0.20	-0.23	7314	3.3
18	O128	A	-0.601	0.032	0.77	0.45	0.010	0.77	0.04	0.06	0.12	0.45	-0.23	-0.19	-0.24	7287	1.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O128	A	-0.601	0.032	0.78	0.43	0.009	0.78	0.04	0.06	0.11	0.43	-0.21	-0.18	-0.24	7333	1.9
20	O128	A	-0.601	0.032	0.77	0.45	0.010	0.77	0.04	0.06	0.11	0.45	-0.23	-0.21	-0.23	7347	3.1
1	O129	C	-1.656	0.038	0.85	0.61	0.019	0.03	0.08	0.85	0.02	-0.31	-0.31	0.61	-0.20	7853	-6.4
2	O129	C	-1.656	0.040	0.89	0.51	0.011	0.02	0.07	0.89	0.02	-0.29	-0.32	0.51	-0.18	7382	-5.6
3	O129	C	-1.656	0.040	0.88	0.54	0.010	0.02	0.07	0.88	0.02	-0.26	-0.33	0.54	-0.19	7363	-7.4
4	O129	C	-1.656	0.041	0.89	0.50	0.008	0.02	0.07	0.89	0.01	-0.27	-0.32	0.50	-0.16	7383	-5.9
5	O129	C	-1.656	0.041	0.89	0.53	0.009	0.02	0.07	0.89	0.02	-0.28	-0.34	0.53	-0.18	7364	-6.7
6	O129	C	-1.656	0.041	0.89	0.52	0.011	0.02	0.07	0.89	0.02	-0.24	-0.35	0.52	-0.16	7361	-6.7
7	O129	C	-1.656	0.041	0.89	0.54	0.011	0.02	0.06	0.89	0.02	-0.26	-0.35	0.54	-0.20	7378	-6.7
8	O129	C	-1.656	0.040	0.89	0.52	0.010	0.02	0.07	0.89	0.02	-0.27	-0.33	0.52	-0.20	7374	-6.4
9	O129	C	-1.656	0.040	0.89	0.51	0.010	0.02	0.07	0.89	0.02	-0.27	-0.31	0.51	-0.20	7385	-6.9
10	O129	C	-1.656	0.041	0.89	0.52	0.012	0.02	0.06	0.89	0.02	-0.24	-0.33	0.52	-0.19	7361	-7.6
11	O129	C	-1.656	0.041	0.89	0.54	0.011	0.02	0.07	0.89	0.01	-0.27	-0.33	0.54	-0.21	7350	-7.0
12	O129	C	-1.656	0.041	0.88	0.54	0.012	0.02	0.07	0.88	0.02	-0.27	-0.34	0.54	-0.19	7341	-6.4
13	O129	C	-1.656	0.040	0.89	0.53	0.010	0.02	0.07	0.89	0.02	-0.29	-0.33	0.53	-0.18	7315	-6.9
14	O129	C	-1.656	0.041	0.89	0.54	0.008	0.02	0.07	0.89	0.02	-0.29	-0.34	0.54	-0.20	7303	-6.3
15	O129	C	-1.656	0.041	0.89	0.51	0.011	0.02	0.07	0.89	0.02	-0.25	-0.33	0.51	-0.19	7292	-5.9
16	O129	C	-1.656	0.041	0.88	0.50	0.010	0.02	0.07	0.88	0.02	-0.28	-0.31	0.50	-0.16	7295	-3.8
17	O129	C	-1.656	0.043	0.88	0.53	0.011	0.02	0.07	0.88	0.02	-0.27	-0.33	0.53	-0.18	7314	-2.9
18	O129	C	-1.656	0.043	0.89	0.52	0.010	0.02	0.06	0.89	0.02	-0.26	-0.31	0.52	-0.22	7287	-4.1
19	O129	C	-1.656	0.043	0.89	0.52	0.009	0.02	0.07	0.89	0.01	-0.28	-0.33	0.52	-0.17	7333	-4.1
20	O129	C	-1.656	0.043	0.88	0.52	0.009	0.02	0.07	0.88	0.02	-0.26	-0.33	0.52	-0.21	7347	-2.6
1	O130	B	-0.553	0.029	0.75	0.51	0.020	0.04	0.75	0.14	0.05	-0.26	0.51	-0.19	-0.23	7853	-3.8
2	O130	B	-0.553	0.030	0.77	0.44	0.011	0.03	0.77	0.15	0.05	-0.23	0.44	-0.22	-0.24	7382	-1.0
3	O130	B	-0.553	0.030	0.78	0.47	0.010	0.03	0.78	0.13	0.05	-0.21	0.47	-0.23	-0.26	7363	-5.8
4	O130	B	-0.553	0.030	0.78	0.45	0.008	0.03	0.78	0.14	0.05	-0.23	0.45	-0.24	-0.24	7383	-3.9
5	O130	B	-0.553	0.030	0.77	0.48	0.010	0.03	0.77	0.14	0.05	-0.24	0.48	-0.25	-0.24	7364	-4.6
6	O130	B	-0.553	0.030	0.76	0.47	0.011	0.03	0.76	0.15	0.05	-0.22	0.47	-0.24	-0.24	7361	-1.4
7	O130	B	-0.553	0.031	0.76	0.47	0.011	0.03	0.76	0.15	0.05	-0.24	0.47	-0.23	-0.25	7378	-1.8
8	O130	B	-0.553	0.030	0.78	0.46	0.010	0.03	0.78	0.14	0.04	-0.26	0.46	-0.23	-0.23	7374	-4.6
9	O130	B	-0.553	0.030	0.77	0.45	0.010	0.03	0.77	0.15	0.04	-0.22	0.45	-0.25	-0.20	7385	-3.2
10	O130	B	-0.553	0.030	0.76	0.44	0.012	0.03	0.76	0.16	0.04	-0.24	0.44	-0.21	-0.22	7361	-1.0
11	O130	B	-0.553	0.030	0.76	0.45	0.012	0.03	0.76	0.16	0.04	-0.24	0.45	-0.23	-0.22	7350	-0.1
12	O130	B	-0.553	0.030	0.75	0.46	0.012	0.03	0.75	0.15	0.05	-0.23	0.46	-0.22	-0.22	7341	-1.2
13	O130	B	-0.553	0.030	0.78	0.45	0.011	0.03	0.78	0.14	0.04	-0.23	0.45	-0.23	-0.21	7315	-4.3
14	O130	B	-0.553	0.030	0.77	0.44	0.008	0.03	0.77	0.15	0.05	-0.24	0.44	-0.21	-0.23	7303	-1.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O130	B	-0.553	0.030	0.77	0.45	0.012	0.03	0.77	0.14	0.04	-0.21	0.45	-0.23	-0.23	7292	-1.9
16	O130	B	-0.553	0.030	0.77	0.45	0.011	0.03	0.77	0.14	0.05	-0.21	0.45	-0.23	-0.24	7295	-2.1
17	O130	B	-0.553	0.032	0.76	0.47	0.012	0.03	0.76	0.15	0.05	-0.22	0.47	-0.25	-0.23	7314	1.6
18	O130	B	-0.553	0.032	0.79	0.47	0.010	0.03	0.79	0.13	0.04	-0.25	0.47	-0.24	-0.22	7287	-2.0
19	O130	B	-0.553	0.032	0.78	0.46	0.009	0.03	0.78	0.14	0.04	-0.22	0.46	-0.25	-0.23	7333	-0.8
20	O130	B	-0.553	0.032	0.79	0.45	0.010	0.03	0.79	0.13	0.04	-0.23	0.45	-0.22	-0.24	7347	-1.0
1	O131	A	-1.156	0.033	0.81	0.58	0.020	0.81	0.06	0.07	0.04	0.58	-0.24	-0.24	-0.28	7853	-7.1
2	O131	A	-1.156	0.035	0.85	0.52	0.011	0.85	0.06	0.05	0.03	0.52	-0.24	-0.27	-0.27	7382	-6.7
3	O131	A	-1.156	0.035	0.85	0.53	0.010	0.85	0.06	0.06	0.03	0.53	-0.25	-0.26	-0.26	7363	-7.9
4	O131	A	-1.156	0.035	0.85	0.50	0.009	0.85	0.05	0.05	0.04	0.50	-0.23	-0.27	-0.28	7383	-6.1
5	O131	A	-1.156	0.035	0.85	0.51	0.010	0.85	0.05	0.05	0.03	0.51	-0.24	-0.25	-0.28	7364	-7.6
6	O131	A	-1.156	0.035	0.85	0.51	0.012	0.85	0.05	0.06	0.03	0.51	-0.22	-0.27	-0.27	7361	-7.4
7	O131	A	-1.156	0.035	0.84	0.53	0.011	0.84	0.06	0.06	0.03	0.53	-0.25	-0.29	-0.25	7378	-5.4
8	O131	A	-1.156	0.035	0.85	0.52	0.010	0.85	0.05	0.06	0.03	0.52	-0.25	-0.27	-0.28	7374	-7.0
9	O131	A	-1.156	0.035	0.84	0.55	0.011	0.84	0.06	0.06	0.04	0.55	-0.26	-0.28	-0.29	7385	-7.3
10	O131	A	-1.156	0.035	0.84	0.52	0.013	0.84	0.06	0.06	0.03	0.52	-0.26	-0.24	-0.27	7361	-5.8
11	O131	A	-1.156	0.035	0.85	0.52	0.011	0.85	0.05	0.06	0.03	0.52	-0.27	-0.25	-0.25	7350	-6.2
12	O131	A	-1.156	0.035	0.84	0.53	0.012	0.84	0.06	0.06	0.03	0.53	-0.24	-0.29	-0.26	7341	-8.1
13	O131	A	-1.156	0.035	0.85	0.53	0.010	0.85	0.06	0.05	0.04	0.53	-0.22	-0.27	-0.31	7315	-8.9
14	O131	A	-1.156	0.035	0.85	0.52	0.008	0.85	0.06	0.06	0.03	0.52	-0.24	-0.27	-0.28	7303	-6.9
15	O131	A	-1.156	0.035	0.84	0.52	0.012	0.84	0.06	0.06	0.03	0.52	-0.24	-0.29	-0.27	7292	-5.8
16	O131	A	-1.156	0.035	0.83	0.50	0.011	0.83	0.06	0.06	0.04	0.50	-0.22	-0.25	-0.27	7295	-2.7
17	O131	A	-1.156	0.037	0.84	0.54	0.012	0.84	0.06	0.06	0.04	0.54	-0.24	-0.29	-0.28	7314	-2.6
18	O131	A	-1.156	0.037	0.85	0.52	0.010	0.85	0.06	0.05	0.03	0.52	-0.24	-0.28	-0.26	7287	-3.7
19	O131	A	-1.156	0.037	0.84	0.52	0.009	0.84	0.06	0.05	0.04	0.52	-0.24	-0.26	-0.29	7333	-2.8
20	O131	A	-1.156	0.037	0.84	0.52	0.010	0.84	0.06	0.06	0.03	0.52	-0.25	-0.28	-0.27	7347	-1.4
1	O132	A	0.261	0.026	0.62	0.46	0.020	0.62	0.09	0.11	0.16	0.46	-0.21	-0.20	-0.12	7853	0.8
2	O132	A	0.261	0.027	0.64	0.45	0.012	0.64	0.08	0.10	0.16	0.45	-0.23	-0.25	-0.14	7382	-1.9
3	O132	A	0.261	0.027	0.64	0.46	0.010	0.64	0.08	0.10	0.16	0.46	-0.24	-0.22	-0.17	7363	-3.7
4	O132	A	0.261	0.027	0.64	0.46	0.009	0.64	0.09	0.10	0.16	0.46	-0.24	-0.26	-0.15	7383	-2.1
5	O132	A	0.261	0.026	0.64	0.45	0.010	0.64	0.09	0.11	0.17	0.45	-0.23	-0.26	-0.14	7364	-2.9
6	O132	A	0.261	0.027	0.64	0.46	0.012	0.64	0.09	0.09	0.17	0.46	-0.23	-0.23	-0.17	7361	-4.2
7	O132	A	0.261	0.027	0.64	0.44	0.011	0.64	0.08	0.10	0.16	0.44	-0.24	-0.24	-0.13	7378	-1.4
8	O132	A	0.261	0.027	0.63	0.44	0.011	0.63	0.08	0.11	0.17	0.44	-0.22	-0.25	-0.14	7374	-1.5
9	O132	A	0.261	0.026	0.64	0.45	0.011	0.64	0.08	0.10	0.17	0.45	-0.25	-0.22	-0.16	7385	-3.2
10	O132	A	0.261	0.026	0.63	0.45	0.013	0.63	0.08	0.10	0.17	0.45	-0.22	-0.23	-0.17	7361	-2.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O132	A	0.261	0.027	0.64	0.44	0.012	0.64	0.08	0.10	0.17	0.44	-0.22	-0.24	-0.15	7350	-0.5
12	O132	A	0.261	0.027	0.65	0.45	0.013	0.65	0.08	0.10	0.16	0.45	-0.24	-0.22	-0.16	7341	-3.5
13	O132	A	0.261	0.027	0.64	0.44	0.010	0.64	0.08	0.10	0.17	0.44	-0.23	-0.23	-0.15	7315	-1.8
14	O132	A	0.261	0.027	0.63	0.47	0.009	0.63	0.09	0.10	0.17	0.47	-0.25	-0.22	-0.18	7303	-4.1
15	O132	A	0.261	0.027	0.63	0.44	0.013	0.63	0.08	0.10	0.18	0.44	-0.22	-0.25	-0.14	7292	-0.9
16	O132	A	0.261	0.027	0.63	0.44	0.012	0.63	0.08	0.10	0.18	0.44	-0.21	-0.24	-0.16	7295	0.2
17	O132	A	0.261	0.028	0.64	0.45	0.013	0.64	0.08	0.10	0.17	0.45	-0.25	-0.22	-0.16	7314	1.4
18	O132	A	0.261	0.027	0.64	0.46	0.011	0.64	0.08	0.10	0.16	0.46	-0.25	-0.24	-0.15	7287	-1.0
19	O132	A	0.261	0.027	0.64	0.45	0.010	0.64	0.08	0.10	0.17	0.45	-0.23	-0.23	-0.17	7333	0.5
20	O132	A	0.261	0.027	0.64	0.47	0.011	0.64	0.08	0.11	0.16	0.47	-0.25	-0.26	-0.14	7347	0.2

Appendix U:

**2005 Common Grade 11 Multiple Choice Statistics for
Reading**

2005 Common Grade 11 Multiple Choice Statistics for Reading

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O025	A	-2.141	0.045	0.90	0.52	0.010	0.90	0.02	0.05	0.03	0.52	-0.23	-0.29	-0.22	6890	-5.3
2	O025	A	-2.141	0.050	0.91	0.48	0.006	0.91	0.02	0.04	0.02	0.48	-0.24	-0.29	-0.17	6546	-2.0
3	O025	A	-2.141	0.049	0.92	0.47	0.006	0.92	0.02	0.04	0.02	0.47	-0.24	-0.27	-0.18	6555	-2.4
4	O025	A	-2.141	0.049	0.91	0.50	0.005	0.91	0.02	0.05	0.02	0.50	-0.26	-0.31	-0.18	6526	-2.6
5	O025	A	-2.141	0.049	0.91	0.48	0.007	0.91	0.02	0.04	0.02	0.48	-0.23	-0.29	-0.19	6520	-3.7
6	O025	A	-2.141	0.050	0.91	0.48	0.004	0.91	0.02	0.04	0.02	0.48	-0.23	-0.30	-0.19	6532	-3.5
7	O025	A	-2.141	0.049	0.91	0.48	0.006	0.91	0.02	0.04	0.02	0.48	-0.23	-0.31	-0.17	6529	-3.6
8	O025	A	-2.141	0.050	0.91	0.49	0.006	0.91	0.02	0.04	0.02	0.49	-0.26	-0.28	-0.17	6532	-1.2
9	O025	A	-2.141	0.049	0.92	0.48	0.006	0.92	0.02	0.04	0.02	0.48	-0.27	-0.27	-0.17	6535	-4.7
10	O025	A	-2.141	0.049	0.92	0.45	0.005	0.92	0.02	0.04	0.02	0.45	-0.23	-0.29	-0.14	6521	-2.3
11	O025	A	-2.141	0.050	0.91	0.48	0.006	0.91	0.02	0.04	0.02	0.48	-0.22	-0.29	-0.18	6488	-2.9
12	O025	A	-2.141	0.049	0.91	0.46	0.005	0.91	0.02	0.04	0.02	0.46	-0.22	-0.28	-0.20	6528	-3.8
13	O025	A	-2.141	0.050	0.92	0.45	0.006	0.92	0.02	0.04	0.02	0.45	-0.21	-0.26	-0.18	6521	-3.1
14	O025	A	-2.141	0.049	0.91	0.48	0.006	0.91	0.02	0.04	0.02	0.48	-0.21	-0.29	-0.20	6496	-4.9
15	O025	A	-2.141	0.050	0.91	0.48	0.008	0.91	0.02	0.04	0.02	0.48	-0.22	-0.29	-0.17	6489	-3.6
16	O025	A	-2.141	0.048	0.92	0.48	0.006	0.92	0.02	0.04	0.02	0.48	-0.26	-0.28	-0.17	6496	-4.2
17	O025	A	-2.141	0.053	0.91	0.48	0.006	0.91	0.02	0.04	0.02	0.48	-0.23	-0.30	-0.18	6513	-0.3
18	O025	A	-2.141	0.053	0.91	0.48	0.005	0.91	0.02	0.04	0.02	0.48	-0.24	-0.28	-0.19	6507	-0.4
19	O025	A	-2.141	0.053	0.91	0.47	0.005	0.91	0.02	0.04	0.02	0.47	-0.24	-0.28	-0.20	6541	-1.1
20	O025	A	-2.141	0.052	0.91	0.47	0.006	0.91	0.02	0.04	0.02	0.47	-0.20	-0.31	-0.16	6497	0.9
1	O026	D	-0.305	0.029	0.69	0.50	0.009	0.09	0.17	0.03	0.69	-0.24	-0.25	-0.20	0.50	6890	-0.2
2	O026	D	-0.305	0.031	0.72	0.47	0.006	0.09	0.16	0.03	0.72	-0.22	-0.25	-0.21	0.47	6546	2.0
3	O026	D	-0.305	0.031	0.72	0.47	0.006	0.09	0.16	0.03	0.72	-0.24	-0.25	-0.20	0.47	6555	1.8
4	O026	D	-0.305	0.030	0.72	0.46	0.005	0.09	0.16	0.03	0.72	-0.25	-0.23	-0.21	0.46	6526	1.8
5	O026	D	-0.305	0.031	0.72	0.47	0.006	0.08	0.17	0.03	0.72	-0.24	-0.27	-0.16	0.47	6520	1.2
6	O026	D	-0.305	0.031	0.72	0.45	0.005	0.09	0.16	0.02	0.72	-0.24	-0.26	-0.15	0.45	6532	1.5
7	O026	D	-0.305	0.031	0.72	0.44	0.006	0.08	0.17	0.03	0.72	-0.23	-0.24	-0.19	0.44	6529	1.9
8	O026	D	-0.305	0.031	0.72	0.47	0.007	0.09	0.16	0.02	0.72	-0.25	-0.23	-0.21	0.47	6532	4.2
9	O026	D	-0.305	0.031	0.72	0.45	0.006	0.09	0.17	0.02	0.72	-0.22	-0.25	-0.19	0.45	6535	2.1
10	O026	D	-0.305	0.031	0.72	0.46	0.005	0.08	0.17	0.03	0.72	-0.22	-0.26	-0.20	0.46	6521	4.3
11	O026	D	-0.305	0.031	0.71	0.47	0.007	0.09	0.17	0.03	0.71	-0.23	-0.26	-0.18	0.47	6488	1.0
12	O026	D	-0.305	0.030	0.72	0.45	0.006	0.08	0.16	0.03	0.72	-0.22	-0.26	-0.18	0.45	6528	0.9
13	O026	D	-0.305	0.031	0.74	0.46	0.006	0.08	0.15	0.02	0.74	-0.25	-0.24	-0.17	0.46	6521	1.1
14	O026	D	-0.305	0.030	0.72	0.47	0.006	0.08	0.17	0.03	0.72	-0.23	-0.28	-0.17	0.47	6496	-2.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O026	D	-0.305	0.031	0.72	0.47	0.007	0.08	0.16	0.03	0.72	-0.23	-0.24	-0.19	0.47	6489	0.3
16	O026	D	-0.305	0.030	0.71	0.47	0.006	0.09	0.17	0.03	0.71	-0.26	-0.25	-0.18	0.47	6496	0.7
17	O026	D	-0.305	0.032	0.71	0.46	0.006	0.09	0.18	0.03	0.71	-0.22	-0.27	-0.18	0.46	6513	7.4
18	O026	D	-0.305	0.032	0.72	0.46	0.005	0.09	0.16	0.03	0.72	-0.26	-0.23	-0.20	0.46	6507	8.4
19	O026	D	-0.305	0.032	0.71	0.46	0.005	0.08	0.17	0.03	0.71	-0.22	-0.25	-0.19	0.46	6541	5.6
20	O026	D	-0.305	0.032	0.71	0.44	0.006	0.09	0.17	0.02	0.71	-0.23	-0.24	-0.15	0.44	6497	6.6
1	O027	B	1.447	0.028	0.40	0.27	0.012	0.09	0.40	0.34	0.16	-0.08	0.27	-0.13	-0.04	6890	9.9
2	O027	B	1.447	0.028	0.40	0.26	0.008	0.09	0.40	0.35	0.16	-0.10	0.26	-0.14	-0.04	6546	9.9
3	O027	B	1.447	0.028	0.41	0.24	0.008	0.09	0.41	0.34	0.16	-0.11	0.24	-0.13	-0.02	6555	9.9
4	O027	B	1.447	0.028	0.41	0.25	0.006	0.09	0.41	0.34	0.15	-0.12	0.25	-0.12	-0.05	6526	9.9
5	O027	B	1.447	0.028	0.41	0.26	0.008	0.09	0.41	0.35	0.15	-0.07	0.26	-0.13	-0.06	6520	9.9
6	O027	B	1.447	0.028	0.40	0.26	0.006	0.09	0.40	0.34	0.17	-0.09	0.26	-0.15	-0.05	6532	9.9
7	O027	B	1.447	0.028	0.41	0.26	0.007	0.09	0.41	0.34	0.15	-0.12	0.26	-0.14	-0.02	6529	9.9
8	O027	B	1.447	0.028	0.41	0.28	0.008	0.09	0.41	0.34	0.16	-0.11	0.28	-0.13	-0.06	6532	9.9
9	O027	B	1.447	0.028	0.40	0.24	0.007	0.09	0.40	0.35	0.16	-0.11	0.24	-0.13	-0.03	6535	9.9
10	O027	B	1.447	0.028	0.40	0.26	0.007	0.08	0.40	0.36	0.15	-0.10	0.26	-0.15	-0.04	6521	9.9
11	O027	B	1.447	0.028	0.41	0.26	0.009	0.09	0.41	0.34	0.15	-0.10	0.26	-0.15	-0.02	6488	9.9
12	O027	B	1.447	0.028	0.41	0.27	0.007	0.09	0.41	0.34	0.15	-0.09	0.27	-0.17	-0.04	6528	9.9
13	O027	B	1.447	0.028	0.42	0.27	0.009	0.08	0.42	0.34	0.15	-0.10	0.27	-0.14	-0.04	6521	9.9
14	O027	B	1.447	0.028	0.40	0.27	0.009	0.09	0.40	0.35	0.15	-0.10	0.27	-0.16	-0.02	6496	9.9
15	O027	B	1.447	0.028	0.41	0.26	0.008	0.08	0.41	0.35	0.15	-0.09	0.26	-0.15	-0.02	6489	9.9
16	O027	B	1.447	0.028	0.41	0.25	0.008	0.09	0.41	0.34	0.16	-0.10	0.25	-0.14	-0.03	6496	9.9
17	O027	B	1.447	0.028	0.40	0.26	0.008	0.09	0.40	0.35	0.16	-0.11	0.26	-0.14	-0.03	6513	9.9
18	O027	B	1.447	0.028	0.41	0.26	0.007	0.09	0.41	0.34	0.16	-0.12	0.26	-0.14	-0.03	6507	9.9
19	O027	B	1.447	0.028	0.40	0.27	0.007	0.09	0.40	0.34	0.16	-0.11	0.27	-0.15	-0.03	6541	9.9
20	O027	B	1.447	0.028	0.40	0.27	0.008	0.09	0.40	0.35	0.16	-0.11	0.27	-0.14	-0.03	6497	9.9
1	O028	C	-2.497	0.051	0.91	0.59	0.009	0.02	0.03	0.91	0.03	-0.27	-0.29	0.59	-0.29	6890	-6.3
2	O028	C	-2.497	0.057	0.93	0.55	0.005	0.02	0.03	0.93	0.02	-0.27	-0.30	0.55	-0.26	6546	-6.5
3	O028	C	-2.497	0.055	0.93	0.54	0.005	0.02	0.03	0.93	0.02	-0.24	-0.30	0.54	-0.28	6555	-4.7
4	O028	C	-2.497	0.055	0.93	0.53	0.004	0.02	0.03	0.93	0.02	-0.27	-0.29	0.53	-0.26	6526	-6.0
5	O028	C	-2.497	0.055	0.93	0.52	0.006	0.02	0.03	0.93	0.02	-0.24	-0.28	0.52	-0.25	6520	-5.9
6	O028	C	-2.497	0.057	0.93	0.52	0.005	0.02	0.02	0.93	0.02	-0.26	-0.28	0.52	-0.26	6532	-4.8
7	O028	C	-2.497	0.056	0.93	0.51	0.005	0.02	0.03	0.93	0.02	-0.25	-0.27	0.51	-0.25	6529	-5.5
8	O028	C	-2.497	0.057	0.93	0.54	0.006	0.02	0.03	0.93	0.02	-0.25	-0.29	0.54	-0.27	6532	-5.1
9	O028	C	-2.497	0.056	0.93	0.54	0.005	0.02	0.03	0.93	0.02	-0.24	-0.29	0.54	-0.27	6535	-6.2
10	O028	C	-2.497	0.056	0.93	0.53	0.005	0.02	0.03	0.93	0.02	-0.27	-0.28	0.53	-0.26	6521	-4.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O028	C	-2.497	0.057	0.93	0.52	0.006	0.02	0.02	0.93	0.02	-0.24	-0.26	0.52	-0.27	6488	-5.8
12	O028	C	-2.497	0.056	0.94	0.50	0.004	0.02	0.02	0.94	0.02	-0.23	-0.26	0.50	-0.26	6528	-7.3
13	O028	C	-2.497	0.057	0.94	0.50	0.005	0.02	0.02	0.94	0.02	-0.25	-0.24	0.50	-0.25	6521	-5.9
14	O028	C	-2.497	0.056	0.93	0.52	0.006	0.02	0.02	0.93	0.02	-0.26	-0.25	0.52	-0.25	6496	-5.4
15	O028	C	-2.497	0.056	0.93	0.55	0.007	0.02	0.02	0.93	0.02	-0.26	-0.27	0.55	-0.26	6489	-5.8
16	O028	C	-2.497	0.055	0.93	0.51	0.006	0.02	0.02	0.93	0.02	-0.23	-0.27	0.51	-0.25	6496	-5.8
17	O028	C	-2.497	0.061	0.94	0.50	0.005	0.02	0.02	0.94	0.02	-0.24	-0.27	0.50	-0.25	6513	-3.7
18	O028	C	-2.497	0.061	0.93	0.54	0.005	0.02	0.03	0.93	0.02	-0.26	-0.30	0.54	-0.27	6507	-4.0
19	O028	C	-2.497	0.060	0.93	0.51	0.005	0.02	0.03	0.93	0.02	-0.25	-0.27	0.51	-0.26	6541	-1.2
20	O028	C	-2.497	0.059	0.93	0.54	0.006	0.02	0.02	0.93	0.02	-0.23	-0.30	0.54	-0.27	6497	-3.9
1	O029	B	0.441	0.027	0.58	0.46	0.010	0.11	0.58	0.12	0.18	-0.23	0.46	-0.09	-0.24	6890	2.0
2	O029	B	0.441	0.028	0.59	0.41	0.007	0.11	0.59	0.12	0.17	-0.25	0.41	-0.07	-0.22	6546	5.2
3	O029	B	0.441	0.028	0.59	0.42	0.006	0.11	0.59	0.12	0.17	-0.24	0.42	-0.07	-0.23	6555	5.0
4	O029	B	0.441	0.028	0.59	0.44	0.005	0.11	0.59	0.12	0.17	-0.25	0.44	-0.09	-0.25	6526	1.4
5	O029	B	0.441	0.028	0.60	0.43	0.006	0.11	0.60	0.12	0.17	-0.25	0.43	-0.07	-0.24	6520	3.3
6	O029	B	0.441	0.028	0.60	0.42	0.005	0.10	0.60	0.12	0.17	-0.24	0.42	-0.08	-0.25	6532	3.4
7	O029	B	0.441	0.028	0.60	0.43	0.006	0.11	0.60	0.12	0.17	-0.23	0.43	-0.09	-0.25	6529	2.7
8	O029	B	0.441	0.029	0.60	0.44	0.007	0.10	0.60	0.12	0.17	-0.22	0.44	-0.09	-0.26	6532	3.2
9	O029	B	0.441	0.028	0.59	0.43	0.007	0.11	0.59	0.12	0.18	-0.24	0.43	-0.09	-0.24	6535	3.3
10	O029	B	0.441	0.029	0.59	0.42	0.006	0.11	0.59	0.12	0.17	-0.23	0.42	-0.08	-0.24	6521	6.2
11	O029	B	0.441	0.028	0.60	0.43	0.006	0.10	0.60	0.12	0.17	-0.26	0.43	-0.08	-0.23	6488	2.1
12	O029	B	0.441	0.028	0.60	0.42	0.005	0.11	0.60	0.12	0.17	-0.24	0.42	-0.08	-0.24	6528	2.8
13	O029	B	0.441	0.028	0.59	0.44	0.007	0.11	0.59	0.12	0.18	-0.25	0.44	-0.07	-0.26	6521	2.3
14	O029	B	0.441	0.028	0.60	0.43	0.006	0.11	0.60	0.12	0.18	-0.23	0.43	-0.09	-0.24	6496	1.6
15	O029	B	0.441	0.028	0.60	0.41	0.007	0.10	0.60	0.12	0.17	-0.22	0.41	-0.07	-0.23	6489	4.1
16	O029	B	0.441	0.028	0.60	0.44	0.006	0.10	0.60	0.12	0.17	-0.24	0.44	-0.09	-0.24	6496	0.5
17	O029	B	0.441	0.029	0.60	0.42	0.006	0.10	0.60	0.12	0.18	-0.23	0.42	-0.09	-0.23	6513	8.7
18	O029	B	0.441	0.029	0.59	0.42	0.005	0.11	0.59	0.12	0.18	-0.23	0.42	-0.09	-0.24	6507	7.2
19	O029	B	0.441	0.029	0.59	0.42	0.005	0.11	0.59	0.12	0.17	-0.25	0.42	-0.07	-0.24	6541	5.9
20	O029	B	0.441	0.029	0.58	0.42	0.006	0.11	0.58	0.12	0.18	-0.25	0.42	-0.07	-0.22	6497	6.7
1	O030	C	-0.932	0.033	0.78	0.51	0.010	0.06	0.11	0.78	0.05	-0.19	-0.31	0.51	-0.19	6890	-3.0
2	O030	C	-0.932	0.035	0.80	0.51	0.007	0.05	0.10	0.80	0.05	-0.21	-0.31	0.51	-0.21	6546	-0.8
3	O030	C	-0.932	0.035	0.80	0.50	0.006	0.06	0.09	0.80	0.05	-0.23	-0.28	0.50	-0.22	6555	-0.5
4	O030	C	-0.932	0.035	0.80	0.49	0.005	0.06	0.10	0.80	0.05	-0.19	-0.31	0.49	-0.21	6526	-0.0
5	O030	C	-0.932	0.035	0.80	0.47	0.006	0.05	0.10	0.80	0.05	-0.17	-0.30	0.47	-0.19	6520	0.5
6	O030	C	-0.932	0.035	0.81	0.50	0.005	0.05	0.09	0.81	0.05	-0.22	-0.31	0.50	-0.22	6532	-2.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O030	C	-0.932	0.035	0.79	0.49	0.005	0.05	0.10	0.79	0.05	-0.19	-0.30	0.49	-0.22	6529	0.0
8	O030	C	-0.932	0.036	0.81	0.48	0.006	0.06	0.09	0.81	0.04	-0.19	-0.31	0.48	-0.18	6532	0.5
9	O030	C	-0.932	0.035	0.80	0.49	0.006	0.06	0.09	0.80	0.04	-0.21	-0.30	0.49	-0.18	6535	-0.9
10	O030	C	-0.932	0.035	0.81	0.48	0.005	0.05	0.10	0.81	0.04	-0.22	-0.29	0.48	-0.20	6521	-0.5
11	O030	C	-0.932	0.035	0.81	0.48	0.006	0.05	0.09	0.81	0.04	-0.19	-0.30	0.48	-0.21	6488	-2.4
12	O030	C	-0.932	0.034	0.80	0.49	0.005	0.06	0.09	0.80	0.04	-0.20	-0.32	0.49	-0.20	6528	-2.9
13	O030	C	-0.932	0.035	0.80	0.50	0.006	0.05	0.10	0.80	0.05	-0.19	-0.31	0.50	-0.22	6521	-0.9
14	O030	C	-0.932	0.034	0.79	0.49	0.007	0.06	0.10	0.79	0.05	-0.20	-0.31	0.49	-0.18	6496	-1.2
15	O030	C	-0.932	0.035	0.81	0.51	0.007	0.05	0.09	0.81	0.04	-0.21	-0.31	0.51	-0.20	6489	-2.0
16	O030	C	-0.932	0.034	0.80	0.50	0.005	0.05	0.10	0.80	0.04	-0.21	-0.31	0.50	-0.21	6496	-2.9
17	O030	C	-0.932	0.037	0.80	0.49	0.007	0.05	0.09	0.80	0.04	-0.19	-0.30	0.49	-0.21	6513	3.2
18	O030	C	-0.932	0.037	0.80	0.49	0.005	0.05	0.09	0.80	0.05	-0.20	-0.30	0.49	-0.21	6507	3.3
19	O030	C	-0.932	0.036	0.80	0.49	0.006	0.05	0.10	0.80	0.05	-0.20	-0.30	0.49	-0.21	6541	2.8
20	O030	C	-0.932	0.036	0.80	0.47	0.006	0.05	0.10	0.80	0.05	-0.19	-0.28	0.47	-0.19	6497	3.6
1	O031	D	-0.1463	0.017	0.64	0.39	0.010	0.17	0.08	0.09	0.64	-0.09	-0.19	-0.25	0.39	6890	4.1
2	O031	D	-0.1463	0.018	0.63	0.40	0.008	0.18	0.09	0.09	0.63	-0.11	-0.17	-0.28	0.40	6546	4.3
3	O031	D	-0.1463	0.018	0.64	0.39	0.008	0.18	0.08	0.09	0.64	-0.11	-0.21	-0.25	0.39	6555	4.4
4	O031	D	-0.1463	0.018	0.64	0.38	0.007	0.18	0.08	0.10	0.64	-0.10	-0.19	-0.27	0.38	6526	4.4
5	O031	D	-0.1463	0.018	0.64	0.39	0.009	0.18	0.09	0.09	0.64	-0.12	-0.18	-0.23	0.39	6520	3.3
6	O031	D	-0.1463	0.018	0.64	0.40	0.006	0.19	0.08	0.09	0.64	-0.11	-0.21	-0.27	0.40	6532	3.1
7	O031	D	-0.1463	0.018	0.63	0.41	0.007	0.19	0.09	0.09	0.63	-0.13	-0.20	-0.25	0.41	6529	1.8
8	O031	D	-0.1463	0.018	0.64	0.39	0.007	0.18	0.08	0.09	0.64	-0.12	-0.16	-0.27	0.39	6532	6.4
9	O031	D	-0.1463	0.018	0.65	0.39	0.008	0.17	0.09	0.09	0.65	-0.11	-0.19	-0.26	0.39	6535	2.9
10	O031	D	-0.1463	0.018	0.63	0.41	0.008	0.18	0.09	0.09	0.63	-0.13	-0.21	-0.25	0.41	6521	4.8
11	O031	D	-0.1463	0.018	0.63	0.37	0.009	0.18	0.09	0.09	0.63	-0.10	-0.17	-0.25	0.37	6488	3.8
12	O031	D	-0.1463	0.018	0.63	0.41	0.007	0.19	0.09	0.09	0.63	-0.12	-0.20	-0.27	0.41	6528	1.2
13	O031	D	-0.1463	0.018	0.63	0.41	0.009	0.18	0.09	0.09	0.63	-0.12	-0.21	-0.25	0.41	6521	3.0
14	O031	D	-0.1463	0.018	0.62	0.40	0.008	0.19	0.09	0.09	0.62	-0.12	-0.18	-0.25	0.40	6496	1.7
15	O031	D	-0.1463	0.018	0.64	0.41	0.010	0.18	0.08	0.09	0.64	-0.13	-0.18	-0.25	0.41	6489	2.4
16	O031	D	-0.1463	0.018	0.64	0.41	0.007	0.18	0.09	0.09	0.64	-0.12	-0.20	-0.26	0.41	6496	0.9
17	O031	D	-0.1463	0.019	0.62	0.41	0.009	0.19	0.09	0.10	0.62	-0.10	-0.21	-0.26	0.41	6513	7.4
18	O031	D	-0.1463	0.019	0.64	0.40	0.007	0.18	0.08	0.10	0.64	-0.10	-0.19	-0.28	0.40	6507	6.6
19	O031	D	-0.1463	0.018	0.64	0.40	0.007	0.18	0.08	0.10	0.64	-0.12	-0.21	-0.25	0.40	6541	6.0
20	O031	D	-0.1463	0.019	0.63	0.38	0.007	0.19	0.09	0.09	0.63	-0.11	-0.19	-0.24	0.38	6497	8.6
1	O032	B	0.2322	0.028	0.61	0.46	0.011	0.07	0.61	0.20	0.10	-0.23	0.46	-0.11	-0.28	6890	2.0
2	O032	B	0.2322	0.029	0.63	0.43	0.007	0.07	0.63	0.20	0.09	-0.22	0.43	-0.13	-0.28	6546	3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O032	B	0.2322	0.029	0.65	0.43	0.006	0.07	0.65	0.19	0.09	-0.22	0.43	-0.12	-0.29	6555	2.0
4	O032	B	0.2322	0.028	0.64	0.43	0.005	0.07	0.64	0.20	0.09	-0.23	0.43	-0.14	-0.28	6526	0.8
5	O032	B	0.2322	0.029	0.64	0.44	0.007	0.06	0.64	0.20	0.09	-0.22	0.44	-0.13	-0.30	6520	1.4
6	O032	B	0.2322	0.029	0.64	0.44	0.006	0.07	0.64	0.20	0.09	-0.24	0.44	-0.14	-0.28	6532	1.1
7	O032	B	0.2322	0.028	0.62	0.45	0.006	0.07	0.62	0.20	0.10	-0.23	0.45	-0.12	-0.31	6529	1.3
8	O032	B	0.2322	0.029	0.64	0.45	0.007	0.06	0.64	0.20	0.09	-0.22	0.45	-0.14	-0.30	6532	2.8
9	O032	B	0.2322	0.028	0.63	0.43	0.007	0.06	0.63	0.21	0.09	-0.22	0.43	-0.12	-0.30	6535	1.7
10	O032	B	0.2322	0.029	0.63	0.43	0.006	0.07	0.63	0.21	0.10	-0.22	0.43	-0.11	-0.31	6521	4.3
11	O032	B	0.2322	0.028	0.63	0.42	0.007	0.06	0.63	0.21	0.09	-0.18	0.42	-0.13	-0.29	6488	1.5
12	O032	B	0.2322	0.028	0.62	0.45	0.006	0.07	0.62	0.21	0.10	-0.22	0.45	-0.15	-0.29	6528	-0.5
13	O032	B	0.2322	0.029	0.63	0.46	0.007	0.07	0.63	0.21	0.09	-0.20	0.46	-0.15	-0.30	6521	1.8
14	O032	B	0.2322	0.028	0.63	0.43	0.007	0.06	0.63	0.21	0.09	-0.20	0.43	-0.14	-0.28	6496	0.7
15	O032	B	0.2322	0.029	0.62	0.42	0.008	0.06	0.62	0.21	0.09	-0.19	0.42	-0.12	-0.28	6489	4.8
16	O032	B	0.2322	0.028	0.63	0.44	0.006	0.07	0.63	0.20	0.10	-0.22	0.44	-0.12	-0.30	6496	0.9
17	O032	B	0.2322	0.030	0.64	0.44	0.006	0.07	0.64	0.19	0.10	-0.23	0.44	-0.11	-0.30	6513	5.1
18	O032	B	0.2322	0.030	0.64	0.43	0.005	0.07	0.64	0.20	0.10	-0.21	0.43	-0.12	-0.31	6507	5.9
19	O032	B	0.2322	0.029	0.63	0.44	0.006	0.07	0.63	0.20	0.09	-0.22	0.44	-0.12	-0.31	6541	4.7
20	O032	B	0.2322	0.029	0.63	0.43	0.006	0.07	0.63	0.20	0.09	-0.18	0.43	-0.14	-0.30	6497	3.9
1	O034	C	-1.033	0.033	0.79	0.58	0.012	0.08	0.06	0.79	0.05	-0.27	-0.35	0.58	-0.20	6890	-7.9
2	O034	C	-1.033	0.036	0.80	0.56	0.010	0.08	0.05	0.80	0.06	-0.26	-0.35	0.56	-0.20	6546	-4.5
3	O034	C	-1.033	0.035	0.81	0.57	0.009	0.08	0.06	0.81	0.05	-0.27	-0.36	0.57	-0.20	6555	-6.9
4	O034	C	-1.033	0.035	0.81	0.57	0.009	0.08	0.05	0.81	0.05	-0.28	-0.37	0.57	-0.20	6526	-7.3
5	O034	C	-1.033	0.035	0.81	0.55	0.009	0.08	0.05	0.81	0.05	-0.29	-0.33	0.55	-0.18	6520	-5.6
6	O034	C	-1.033	0.036	0.81	0.56	0.007	0.07	0.06	0.81	0.05	-0.27	-0.34	0.56	-0.22	6532	-6.8
7	O034	C	-1.033	0.035	0.81	0.57	0.007	0.08	0.05	0.81	0.05	-0.28	-0.35	0.57	-0.21	6529	-6.7
8	O034	C	-1.033	0.036	0.82	0.57	0.009	0.07	0.05	0.82	0.05	-0.28	-0.36	0.57	-0.20	6532	-6.5
9	O034	C	-1.033	0.036	0.81	0.56	0.008	0.08	0.05	0.81	0.05	-0.28	-0.36	0.56	-0.19	6535	-7.2
10	O034	C	-1.033	0.036	0.80	0.58	0.008	0.07	0.06	0.80	0.06	-0.29	-0.37	0.58	-0.20	6521	-5.5
11	O034	C	-1.033	0.036	0.80	0.57	0.011	0.08	0.05	0.80	0.06	-0.27	-0.34	0.57	-0.20	6488	-5.7
12	O034	C	-1.033	0.035	0.81	0.57	0.008	0.08	0.05	0.81	0.06	-0.28	-0.35	0.57	-0.22	6528	-8.7
13	O034	C	-1.033	0.036	0.81	0.57	0.008	0.08	0.06	0.81	0.05	-0.29	-0.35	0.57	-0.19	6521	-5.7
14	O034	C	-1.033	0.035	0.81	0.56	0.008	0.08	0.05	0.81	0.06	-0.28	-0.33	0.56	-0.22	6496	-8.6
15	O034	C	-1.033	0.036	0.81	0.58	0.010	0.07	0.05	0.81	0.06	-0.27	-0.35	0.58	-0.21	6489	-7.5
16	O034	C	-1.033	0.035	0.80	0.57	0.009	0.08	0.05	0.80	0.06	-0.28	-0.34	0.57	-0.21	6496	-7.1
17	O034	C	-1.033	0.038	0.80	0.58	0.009	0.08	0.06	0.80	0.05	-0.28	-0.36	0.58	-0.19	6513	-2.1
18	O034	C	-1.033	0.038	0.81	0.56	0.008	0.08	0.06	0.81	0.05	-0.29	-0.37	0.56	-0.17	6507	-2.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O034	C	-1.033	0.037	0.81	0.55	0.008	0.07	0.06	0.81	0.06	-0.25	-0.36	0.55	-0.21	6541	-3.3
20	O034	C	-1.033	0.037	0.81	0.58	0.009	0.08	0.05	0.81	0.05	-0.30	-0.35	0.58	-0.21	6497	-4.5
1	O035	C	-0.071	0.028	0.68	0.40	0.012	0.08	0.06	0.68	0.16	-0.27	-0.24	0.40	-0.06	6890	4.6
2	O035	C	-0.071	0.030	0.69	0.38	0.011	0.08	0.05	0.69	0.17	-0.26	-0.21	0.38	-0.08	6546	5.9
3	O035	C	-0.071	0.030	0.70	0.39	0.009	0.08	0.06	0.70	0.16	-0.28	-0.24	0.39	-0.07	6555	5.5
4	O035	C	-0.071	0.029	0.70	0.39	0.010	0.08	0.05	0.70	0.16	-0.27	-0.24	0.39	-0.08	6526	3.3
5	O035	C	-0.071	0.030	0.69	0.39	0.009	0.09	0.05	0.69	0.16	-0.28	-0.22	0.39	-0.06	6520	4.2
6	O035	C	-0.071	0.030	0.69	0.40	0.008	0.09	0.06	0.69	0.16	-0.31	-0.22	0.40	-0.08	6532	4.9
7	O035	C	-0.071	0.029	0.69	0.38	0.008	0.08	0.06	0.69	0.17	-0.27	-0.24	0.38	-0.07	6529	4.0
8	O035	C	-0.071	0.030	0.70	0.40	0.010	0.08	0.05	0.70	0.16	-0.28	-0.22	0.40	-0.09	6532	4.0
9	O035	C	-0.071	0.030	0.69	0.38	0.009	0.08	0.06	0.69	0.16	-0.27	-0.25	0.38	-0.06	6535	5.0
10	O035	C	-0.071	0.030	0.68	0.38	0.008	0.08	0.06	0.68	0.17	-0.30	-0.23	0.38	-0.06	6521	8.7
11	O035	C	-0.071	0.030	0.68	0.39	0.012	0.08	0.05	0.68	0.17	-0.27	-0.21	0.39	-0.07	6488	4.5
12	O035	C	-0.071	0.029	0.70	0.38	0.009	0.08	0.06	0.70	0.16	-0.26	-0.24	0.38	-0.08	6528	3.5
13	O035	C	-0.071	0.030	0.69	0.39	0.009	0.09	0.05	0.69	0.16	-0.28	-0.24	0.39	-0.07	6521	6.4
14	O035	C	-0.071	0.029	0.69	0.39	0.009	0.08	0.06	0.69	0.17	-0.27	-0.21	0.39	-0.08	6496	3.0
15	O035	C	-0.071	0.030	0.69	0.37	0.010	0.08	0.06	0.69	0.16	-0.27	-0.21	0.37	-0.05	6489	5.7
16	O035	C	-0.071	0.029	0.69	0.40	0.009	0.08	0.06	0.69	0.16	-0.30	-0.21	0.40	-0.08	6496	1.9
17	O035	C	-0.071	0.031	0.69	0.38	0.010	0.08	0.05	0.69	0.16	-0.26	-0.24	0.38	-0.06	6513	9.5
18	O035	C	-0.071	0.031	0.69	0.38	0.008	0.08	0.06	0.69	0.16	-0.27	-0.22	0.38	-0.08	6507	8.4
19	O035	C	-0.071	0.031	0.69	0.40	0.008	0.08	0.05	0.69	0.16	-0.29	-0.26	0.40	-0.06	6541	7.4
20	O035	C	-0.071	0.031	0.68	0.37	0.009	0.08	0.06	0.68	0.17	-0.28	-0.20	0.37	-0.06	6497	9.9
1	O036	D	-0.384	0.030	0.72	0.49	0.012	0.19	0.04	0.05	0.72	-0.24	-0.26	-0.20	0.49	6890	-4.9
2	O036	D	-0.384	0.031	0.72	0.49	0.009	0.19	0.03	0.05	0.72	-0.26	-0.24	-0.21	0.49	6546	-1.0
3	O036	D	-0.384	0.031	0.72	0.46	0.009	0.19	0.03	0.05	0.72	-0.24	-0.22	-0.22	0.46	6555	-1.1
4	O036	D	-0.384	0.031	0.74	0.47	0.008	0.17	0.03	0.05	0.74	-0.26	-0.25	-0.20	0.47	6526	-4.5
5	O036	D	-0.384	0.031	0.73	0.49	0.009	0.19	0.03	0.04	0.73	-0.26	-0.23	-0.23	0.49	6520	-2.8
6	O036	D	-0.384	0.031	0.74	0.48	0.007	0.18	0.03	0.04	0.74	-0.27	-0.23	-0.23	0.48	6532	-3.2
7	O036	D	-0.384	0.031	0.73	0.47	0.007	0.19	0.03	0.05	0.73	-0.28	-0.24	-0.19	0.47	6529	-2.5
8	O036	D	-0.384	0.032	0.73	0.47	0.009	0.18	0.03	0.05	0.73	-0.25	-0.26	-0.19	0.47	6532	-0.3
9	O036	D	-0.384	0.031	0.73	0.47	0.008	0.19	0.03	0.05	0.73	-0.24	-0.26	-0.21	0.47	6535	-2.5
10	O036	D	-0.384	0.032	0.72	0.49	0.007	0.19	0.03	0.05	0.72	-0.26	-0.26	-0.24	0.49	6521	-0.5
11	O036	D	-0.384	0.031	0.72	0.49	0.011	0.19	0.03	0.05	0.72	-0.27	-0.23	-0.21	0.49	6488	-4.0
12	O036	D	-0.384	0.031	0.73	0.47	0.007	0.18	0.03	0.05	0.73	-0.26	-0.21	-0.22	0.47	6528	-3.7
13	O036	D	-0.384	0.031	0.73	0.48	0.008	0.18	0.03	0.05	0.73	-0.26	-0.24	-0.21	0.48	6521	-2.2
14	O036	D	-0.384	0.031	0.73	0.48	0.008	0.18	0.03	0.05	0.73	-0.27	-0.25	-0.20	0.48	6496	-5.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O036	D	-0.384	0.031	0.73	0.48	0.010	0.18	0.03	0.05	0.73	-0.23	-0.26	-0.22	0.48	6489	-3.1
16	O036	D	-0.384	0.031	0.73	0.48	0.008	0.19	0.03	0.04	0.73	-0.26	-0.24	-0.22	0.48	6496	-4.6
17	O036	D	-0.384	0.033	0.73	0.48	0.009	0.19	0.04	0.04	0.73	-0.25	-0.25	-0.20	0.48	6513	2.6
18	O036	D	-0.384	0.033	0.73	0.49	0.008	0.19	0.03	0.04	0.73	-0.27	-0.25	-0.21	0.49	6507	2.1
19	O036	D	-0.384	0.032	0.73	0.49	0.007	0.19	0.03	0.04	0.73	-0.28	-0.25	-0.22	0.49	6541	0.1
20	O036	D	-0.384	0.032	0.72	0.47	0.008	0.19	0.03	0.05	0.72	-0.23	-0.27	-0.21	0.47	6497	2.6
1	O037	C	0.285	0.028	0.62	0.48	0.012	0.07	0.15	0.62	0.16	-0.21	-0.23	0.48	-0.18	6890	-2.7
2	O037	C	0.285	0.029	0.63	0.46	0.011	0.07	0.13	0.63	0.16	-0.23	-0.23	0.46	-0.15	6546	-0.9
3	O037	C	0.285	0.028	0.62	0.47	0.009	0.06	0.14	0.62	0.17	-0.21	-0.25	0.47	-0.17	6555	-1.0
4	O037	C	0.285	0.028	0.63	0.46	0.009	0.06	0.14	0.63	0.16	-0.21	-0.23	0.46	-0.18	6526	-2.4
5	O037	C	0.285	0.028	0.63	0.46	0.010	0.06	0.14	0.63	0.17	-0.23	-0.22	0.46	-0.17	6520	-0.6
6	O037	C	0.285	0.029	0.63	0.48	0.008	0.07	0.14	0.63	0.16	-0.21	-0.25	0.48	-0.20	6532	-2.2
7	O037	C	0.285	0.028	0.63	0.46	0.009	0.07	0.14	0.63	0.16	-0.22	-0.24	0.46	-0.16	6529	-1.6
8	O037	C	0.285	0.029	0.63	0.47	0.009	0.06	0.14	0.63	0.16	-0.20	-0.26	0.47	-0.16	6532	0.7
9	O037	C	0.285	0.028	0.62	0.46	0.009	0.07	0.14	0.62	0.16	-0.23	-0.23	0.46	-0.17	6535	-1.7
10	O037	C	0.285	0.029	0.62	0.48	0.008	0.07	0.14	0.62	0.16	-0.23	-0.24	0.48	-0.19	6521	-0.8
11	O037	C	0.285	0.028	0.63	0.47	0.012	0.06	0.14	0.63	0.16	-0.18	-0.25	0.47	-0.17	6488	-3.4
12	O037	C	0.285	0.028	0.63	0.47	0.008	0.07	0.14	0.63	0.16	-0.23	-0.23	0.47	-0.19	6528	-3.1
13	O037	C	0.285	0.029	0.62	0.48	0.009	0.06	0.14	0.62	0.17	-0.21	-0.25	0.48	-0.19	6521	-1.8
14	O037	C	0.285	0.028	0.63	0.48	0.008	0.06	0.13	0.63	0.16	-0.22	-0.24	0.48	-0.19	6496	-4.8
15	O037	C	0.285	0.028	0.63	0.47	0.010	0.06	0.13	0.63	0.17	-0.21	-0.24	0.47	-0.17	6489	-2.1
16	O037	C	0.285	0.028	0.63	0.48	0.009	0.06	0.14	0.63	0.16	-0.22	-0.25	0.48	-0.18	6496	-4.3
17	O037	C	0.285	0.030	0.62	0.46	0.011	0.07	0.14	0.62	0.16	-0.20	-0.24	0.46	-0.17	6513	2.5
18	O037	C	0.285	0.029	0.62	0.46	0.008	0.07	0.15	0.62	0.16	-0.22	-0.24	0.46	-0.16	6507	3.8
19	O037	C	0.285	0.029	0.63	0.47	0.008	0.07	0.13	0.63	0.17	-0.23	-0.24	0.47	-0.19	6541	-0.1
20	O037	C	0.285	0.029	0.63	0.45	0.008	0.07	0.14	0.63	0.16	-0.20	-0.23	0.45	-0.17	6497	1.1
1	O038	B	-1.847	0.041	0.87	0.56	0.012	0.04	0.87	0.04	0.03	-0.27	0.56	-0.25	-0.26	6890	-3.8
2	O038	B	-1.847	0.045	0.89	0.52	0.010	0.03	0.89	0.04	0.03	-0.27	0.52	-0.25	-0.24	6546	-4.0
3	O038	B	-1.847	0.044	0.89	0.53	0.009	0.04	0.89	0.05	0.02	-0.29	0.53	-0.28	-0.20	6555	-4.5
4	O038	B	-1.847	0.044	0.89	0.54	0.009	0.04	0.89	0.04	0.02	-0.29	0.54	-0.29	-0.21	6526	-6.0
5	O038	B	-1.847	0.044	0.89	0.53	0.009	0.03	0.89	0.04	0.02	-0.27	0.53	-0.29	-0.21	6520	-5.9
6	O038	B	-1.847	0.045	0.90	0.51	0.007	0.03	0.90	0.04	0.02	-0.28	0.51	-0.27	-0.23	6532	-4.8
7	O038	B	-1.847	0.044	0.88	0.53	0.008	0.04	0.88	0.05	0.03	-0.26	0.53	-0.30	-0.23	6529	-3.8
8	O038	B	-1.847	0.046	0.89	0.53	0.009	0.03	0.89	0.04	0.02	-0.30	0.53	-0.25	-0.22	6532	-3.0
9	O038	B	-1.847	0.045	0.89	0.54	0.008	0.03	0.89	0.04	0.03	-0.27	0.54	-0.29	-0.23	6535	-5.1
10	O038	B	-1.847	0.045	0.88	0.55	0.007	0.03	0.88	0.05	0.03	-0.28	0.55	-0.31	-0.25	6521	-3.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O038	B	-1.847	0.045	0.89	0.55	0.011	0.03	0.89	0.04	0.03	-0.27	0.55	-0.28	-0.24	6488	-6.1
12	O038	B	-1.847	0.044	0.89	0.52	0.009	0.04	0.89	0.04	0.02	-0.28	0.52	-0.24	-0.24	6528	-6.3
13	O038	B	-1.847	0.045	0.89	0.53	0.008	0.04	0.89	0.04	0.03	-0.27	0.53	-0.28	-0.22	6521	-5.1
14	O038	B	-1.847	0.044	0.90	0.53	0.008	0.03	0.90	0.04	0.02	-0.27	0.53	-0.28	-0.21	6496	-6.9
15	O038	B	-1.847	0.045	0.89	0.55	0.010	0.03	0.89	0.04	0.02	-0.28	0.55	-0.28	-0.22	6489	-5.2
16	O038	B	-1.847	0.044	0.89	0.53	0.009	0.04	0.89	0.04	0.02	-0.27	0.53	-0.28	-0.21	6496	-6.1
17	O038	B	-1.847	0.048	0.89	0.52	0.010	0.03	0.89	0.04	0.03	-0.26	0.52	-0.27	-0.21	6513	-1.1
18	O038	B	-1.847	0.048	0.89	0.52	0.007	0.03	0.89	0.04	0.03	-0.27	0.52	-0.25	-0.25	6507	-0.4
19	O038	B	-1.847	0.048	0.89	0.53	0.008	0.04	0.89	0.04	0.02	-0.30	0.53	-0.29	-0.21	6541	-3.3
20	O038	B	-1.847	0.047	0.89	0.54	0.008	0.04	0.89	0.04	0.03	-0.27	0.54	-0.29	-0.23	6497	-2.0
1	O039	A	-0.034	0.028	0.67	0.49	0.012	0.67	0.14	0.11	0.07	0.49	-0.24	-0.22	-0.16	6890	-2.5
2	O039	A	-0.034	0.030	0.67	0.45	0.010	0.67	0.14	0.10	0.08	0.45	-0.22	-0.21	-0.17	6546	2.9
3	O039	A	-0.034	0.029	0.67	0.47	0.011	0.67	0.14	0.11	0.07	0.47	-0.22	-0.25	-0.15	6555	-0.5
4	O039	A	-0.034	0.029	0.68	0.48	0.010	0.68	0.14	0.11	0.07	0.48	-0.25	-0.23	-0.16	6526	-2.2
5	O039	A	-0.034	0.029	0.69	0.48	0.011	0.69	0.14	0.10	0.07	0.48	-0.25	-0.23	-0.16	6520	-2.2
6	O039	A	-0.034	0.030	0.68	0.48	0.008	0.68	0.14	0.10	0.07	0.48	-0.26	-0.24	-0.15	6532	-0.6
7	O039	A	-0.034	0.029	0.67	0.46	0.009	0.67	0.14	0.11	0.07	0.46	-0.23	-0.23	-0.17	6529	0.0
8	O039	A	-0.034	0.030	0.67	0.49	0.011	0.67	0.14	0.11	0.07	0.49	-0.27	-0.23	-0.14	6532	0.7
9	O039	A	-0.034	0.029	0.68	0.47	0.010	0.68	0.14	0.11	0.07	0.47	-0.26	-0.23	-0.14	6535	-0.8
10	O039	A	-0.034	0.030	0.67	0.46	0.009	0.67	0.15	0.11	0.07	0.46	-0.25	-0.22	-0.14	6521	2.1
11	O039	A	-0.034	0.029	0.67	0.48	0.012	0.67	0.14	0.11	0.07	0.48	-0.25	-0.21	-0.16	6488	-2.2
12	O039	A	-0.034	0.029	0.67	0.45	0.009	0.67	0.14	0.10	0.07	0.45	-0.25	-0.21	-0.15	6528	-1.2
13	O039	A	-0.034	0.030	0.68	0.48	0.011	0.68	0.14	0.10	0.07	0.48	-0.26	-0.22	-0.16	6521	0.3
14	O039	A	-0.034	0.029	0.67	0.46	0.009	0.67	0.14	0.10	0.07	0.46	-0.23	-0.22	-0.17	6496	-1.7
15	O039	A	-0.034	0.029	0.67	0.48	0.011	0.67	0.14	0.11	0.07	0.48	-0.23	-0.22	-0.17	6489	-1.5
16	O039	A	-0.034	0.029	0.67	0.48	0.010	0.67	0.15	0.11	0.07	0.48	-0.25	-0.24	-0.14	6496	-2.8
17	O039	A	-0.034	0.031	0.66	0.47	0.011	0.66	0.14	0.11	0.07	0.47	-0.23	-0.24	-0.15	6513	5.4
18	O039	A	-0.034	0.031	0.68	0.46	0.009	0.68	0.13	0.11	0.08	0.46	-0.22	-0.24	-0.16	6507	3.6
19	O039	A	-0.034	0.030	0.68	0.49	0.008	0.68	0.14	0.11	0.07	0.49	-0.27	-0.22	-0.17	6541	1.4
20	O039	A	-0.034	0.030	0.67	0.47	0.009	0.67	0.15	0.11	0.07	0.47	-0.24	-0.23	-0.16	6497	3.7
1	O040	D	0.091	0.028	0.64	0.44	0.013	0.13	0.09	0.13	0.64	-0.19	-0.17	-0.19	0.44	6890	4.6
2	O040	D	0.091	0.029	0.65	0.44	0.011	0.11	0.09	0.14	0.65	-0.18	-0.18	-0.21	0.44	6546	4.0
3	O040	D	0.091	0.029	0.66	0.43	0.010	0.11	0.08	0.14	0.66	-0.19	-0.17	-0.20	0.43	6555	3.5
4	O040	D	0.091	0.029	0.65	0.44	0.009	0.12	0.09	0.13	0.65	-0.19	-0.21	-0.19	0.44	6526	1.6
5	O040	D	0.091	0.029	0.66	0.45	0.010	0.12	0.08	0.14	0.66	-0.20	-0.17	-0.23	0.45	6520	0.6
6	O040	D	0.091	0.029	0.66	0.42	0.009	0.12	0.08	0.13	0.66	-0.20	-0.15	-0.20	0.42	6532	3.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O040	D	0.091	0.029	0.65	0.43	0.008	0.12	0.09	0.14	0.65	-0.18	-0.19	-0.21	0.43	6529	3.8
8	O040	D	0.091	0.030	0.66	0.44	0.010	0.11	0.09	0.13	0.66	-0.20	-0.16	-0.21	0.44	6532	3.0
9	O040	D	0.091	0.029	0.65	0.43	0.009	0.12	0.08	0.14	0.65	-0.18	-0.20	-0.20	0.43	6535	3.0
10	O040	D	0.091	0.030	0.65	0.45	0.008	0.12	0.08	0.14	0.65	-0.20	-0.19	-0.23	0.45	6521	5.5
11	O040	D	0.091	0.029	0.65	0.45	0.012	0.12	0.08	0.14	0.65	-0.20	-0.16	-0.20	0.45	6488	1.9
12	O040	D	0.091	0.029	0.66	0.44	0.009	0.11	0.08	0.13	0.66	-0.18	-0.17	-0.24	0.44	6528	0.8
13	O040	D	0.091	0.029	0.65	0.42	0.009	0.12	0.09	0.14	0.65	-0.19	-0.18	-0.19	0.42	6521	5.5
14	O040	D	0.091	0.029	0.67	0.44	0.009	0.12	0.08	0.13	0.67	-0.19	-0.17	-0.22	0.44	6496	-1.0
15	O040	D	0.091	0.029	0.65	0.44	0.010	0.11	0.08	0.14	0.65	-0.19	-0.15	-0.21	0.44	6489	1.5
16	O040	D	0.091	0.029	0.65	0.41	0.010	0.11	0.08	0.14	0.65	-0.17	-0.17	-0.20	0.41	6496	2.7
17	O040	D	0.091	0.030	0.64	0.45	0.011	0.12	0.08	0.15	0.64	-0.20	-0.17	-0.20	0.45	6513	8.1
18	O040	D	0.091	0.030	0.65	0.43	0.009	0.12	0.08	0.14	0.65	-0.18	-0.19	-0.20	0.43	6507	9.7
19	O040	D	0.091	0.030	0.66	0.43	0.008	0.12	0.08	0.13	0.66	-0.19	-0.18	-0.22	0.43	6541	5.8
20	O040	D	0.091	0.030	0.65	0.44	0.009	0.11	0.09	0.14	0.65	-0.20	-0.21	-0.18	0.44	6497	5.4
1	O041	B	-0.236	0.029	0.69	0.51	0.014	0.15	0.69	0.06	0.09	-0.18	0.51	-0.28	-0.26	6890	-4.0
2	O041	B	-0.236	0.031	0.70	0.49	0.011	0.16	0.70	0.05	0.08	-0.18	0.49	-0.26	-0.25	6546	0.4
3	O041	B	-0.236	0.030	0.71	0.48	0.010	0.15	0.71	0.05	0.08	-0.18	0.48	-0.25	-0.25	6555	-1.7
4	O041	B	-0.236	0.030	0.70	0.49	0.010	0.15	0.70	0.05	0.09	-0.19	0.49	-0.26	-0.27	6526	-0.8
5	O041	B	-0.236	0.030	0.71	0.46	0.010	0.15	0.71	0.05	0.09	-0.17	0.46	-0.24	-0.25	6520	-0.8
6	O041	B	-0.236	0.031	0.72	0.50	0.009	0.14	0.72	0.05	0.08	-0.21	0.50	-0.25	-0.27	6532	-2.7
7	O041	B	-0.236	0.030	0.70	0.47	0.009	0.16	0.70	0.05	0.08	-0.18	0.47	-0.28	-0.24	6529	-0.7
8	O041	B	-0.236	0.031	0.71	0.48	0.010	0.15	0.71	0.05	0.08	-0.19	0.48	-0.23	-0.25	6532	1.9
9	O041	B	-0.236	0.030	0.71	0.48	0.009	0.15	0.71	0.05	0.08	-0.17	0.48	-0.28	-0.26	6535	-1.6
10	O041	B	-0.236	0.031	0.70	0.49	0.008	0.16	0.70	0.06	0.08	-0.22	0.49	-0.27	-0.24	6521	0.5
11	O041	B	-0.236	0.030	0.71	0.50	0.013	0.14	0.71	0.05	0.08	-0.17	0.50	-0.27	-0.26	6488	-3.4
12	O041	B	-0.236	0.030	0.71	0.48	0.009	0.15	0.71	0.05	0.08	-0.18	0.48	-0.26	-0.26	6528	-2.0
13	O041	B	-0.236	0.031	0.71	0.48	0.009	0.15	0.71	0.05	0.09	-0.19	0.48	-0.27	-0.23	6521	0.8
14	O041	B	-0.236	0.030	0.71	0.46	0.009	0.16	0.71	0.05	0.08	-0.19	0.46	-0.27	-0.21	6496	-1.1
15	O041	B	-0.236	0.030	0.71	0.47	0.010	0.15	0.71	0.05	0.09	-0.16	0.47	-0.28	-0.24	6489	-1.1
16	O041	B	-0.236	0.030	0.70	0.48	0.010	0.16	0.70	0.04	0.09	-0.19	0.48	-0.23	-0.28	6496	-1.5
17	O041	B	-0.236	0.032	0.70	0.48	0.011	0.15	0.70	0.06	0.09	-0.16	0.48	-0.27	-0.26	6513	5.1
18	O041	B	-0.236	0.032	0.70	0.48	0.010	0.15	0.70	0.05	0.08	-0.20	0.48	-0.24	-0.26	6507	4.0
19	O041	B	-0.236	0.031	0.70	0.50	0.009	0.15	0.70	0.05	0.09	-0.21	0.50	-0.25	-0.27	6541	2.4
20	O041	B	-0.236	0.031	0.71	0.48	0.008	0.15	0.71	0.05	0.08	-0.19	0.48	-0.26	-0.25	6497	2.1
1	O042	B	-0.339	0.029	0.70	0.51	0.014	0.17	0.70	0.05	0.07	-0.20	0.51	-0.31	-0.22	6890	-3.9
2	O042	B	-0.339	0.031	0.71	0.48	0.012	0.17	0.71	0.04	0.07	-0.19	0.48	-0.29	-0.24	6546	-0.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O042	B	-0.339	0.031	0.72	0.51	0.011	0.17	0.72	0.03	0.07	-0.24	0.51	-0.27	-0.23	6555	-2.5
4	O042	B	-0.339	0.031	0.72	0.48	0.010	0.16	0.72	0.04	0.07	-0.20	0.48	-0.29	-0.24	6526	-2.5
5	O042	B	-0.339	0.031	0.71	0.50	0.011	0.17	0.71	0.04	0.07	-0.21	0.50	-0.30	-0.25	6520	-2.1
6	O042	B	-0.339	0.031	0.72	0.50	0.009	0.16	0.72	0.04	0.07	-0.22	0.50	-0.30	-0.25	6532	-1.8
7	O042	B	-0.339	0.031	0.72	0.48	0.009	0.18	0.72	0.04	0.06	-0.21	0.48	-0.30	-0.24	6529	-2.0
8	O042	B	-0.339	0.032	0.72	0.49	0.010	0.17	0.72	0.04	0.07	-0.19	0.49	-0.29	-0.26	6532	-0.2
9	O042	B	-0.339	0.031	0.72	0.49	0.009	0.17	0.72	0.04	0.07	-0.23	0.49	-0.28	-0.24	6535	-3.4
10	O042	B	-0.339	0.031	0.71	0.49	0.009	0.17	0.71	0.04	0.07	-0.21	0.49	-0.29	-0.25	6521	-0.6
11	O042	B	-0.339	0.031	0.71	0.50	0.013	0.17	0.71	0.04	0.06	-0.21	0.50	-0.31	-0.22	6488	-2.7
12	O042	B	-0.339	0.030	0.72	0.49	0.009	0.17	0.72	0.03	0.07	-0.21	0.49	-0.28	-0.25	6528	-2.6
13	O042	B	-0.339	0.031	0.72	0.50	0.009	0.17	0.72	0.04	0.07	-0.23	0.50	-0.28	-0.24	6521	-1.7
14	O042	B	-0.339	0.030	0.71	0.49	0.009	0.18	0.71	0.04	0.07	-0.22	0.49	-0.28	-0.24	6496	-4.1
15	O042	B	-0.339	0.031	0.72	0.49	0.011	0.16	0.72	0.04	0.07	-0.20	0.49	-0.28	-0.25	6489	-3.5
16	O042	B	-0.339	0.030	0.73	0.49	0.010	0.16	0.73	0.04	0.07	-0.20	0.49	-0.28	-0.25	6496	-5.0
17	O042	B	-0.339	0.033	0.71	0.51	0.010	0.17	0.71	0.04	0.08	-0.21	0.51	-0.28	-0.27	6513	3.9
18	O042	B	-0.339	0.032	0.72	0.50	0.010	0.16	0.72	0.04	0.07	-0.22	0.50	-0.31	-0.24	6507	1.0
19	O042	B	-0.339	0.032	0.72	0.48	0.009	0.17	0.72	0.04	0.07	-0.21	0.48	-0.30	-0.23	6541	1.4
20	O042	B	-0.339	0.032	0.72	0.50	0.009	0.17	0.72	0.04	0.07	-0.21	0.50	-0.29	-0.26	6497	1.3
1	O043	B	-1.768	0.040	0.87	0.50	0.014	0.06	0.87	0.03	0.03	-0.20	0.50	-0.26	-0.24	6890	0.9
2	O043	B	-1.768	0.044	0.89	0.45	0.014	0.05	0.89	0.02	0.03	-0.17	0.45	-0.24	-0.22	6546	1.6
3	O043	B	-1.768	0.043	0.88	0.45	0.012	0.05	0.88	0.03	0.03	-0.16	0.45	-0.25	-0.23	6555	1.8
4	O043	B	-1.768	0.043	0.88	0.45	0.012	0.05	0.88	0.03	0.03	-0.18	0.45	-0.25	-0.23	6526	0.9
5	O043	B	-1.768	0.043	0.89	0.45	0.011	0.05	0.89	0.02	0.03	-0.18	0.45	-0.24	-0.23	6520	1.7
6	O043	B	-1.768	0.044	0.89	0.42	0.009	0.05	0.89	0.02	0.03	-0.16	0.42	-0.22	-0.23	6532	2.7
7	O043	B	-1.768	0.043	0.89	0.41	0.009	0.05	0.89	0.03	0.03	-0.15	0.41	-0.23	-0.23	6529	2.9
8	O043	B	-1.768	0.045	0.89	0.46	0.011	0.05	0.89	0.03	0.03	-0.17	0.46	-0.25	-0.24	6532	2.9
9	O043	B	-1.768	0.044	0.88	0.45	0.011	0.05	0.88	0.03	0.03	-0.17	0.45	-0.25	-0.23	6535	1.7
10	O043	B	-1.768	0.044	0.88	0.44	0.010	0.05	0.88	0.02	0.03	-0.18	0.44	-0.22	-0.25	6521	3.1
11	O043	B	-1.768	0.044	0.89	0.47	0.012	0.05	0.89	0.02	0.03	-0.17	0.47	-0.20	-0.26	6488	0.9
12	O043	B	-1.768	0.043	0.89	0.42	0.010	0.05	0.89	0.02	0.03	-0.18	0.42	-0.19	-0.22	6528	2.0
13	O043	B	-1.768	0.044	0.89	0.45	0.011	0.06	0.89	0.02	0.02	-0.20	0.45	-0.21	-0.22	6521	3.7
14	O043	B	-1.768	0.043	0.89	0.43	0.011	0.05	0.89	0.02	0.03	-0.18	0.43	-0.20	-0.22	6496	1.2
15	O043	B	-1.768	0.044	0.89	0.46	0.013	0.05	0.89	0.02	0.03	-0.17	0.46	-0.23	-0.24	6489	1.9
16	O043	B	-1.768	0.043	0.88	0.42	0.010	0.06	0.88	0.02	0.03	-0.15	0.42	-0.21	-0.25	6496	2.5
17	O043	B	-1.768	0.047	0.88	0.46	0.013	0.05	0.88	0.02	0.03	-0.18	0.46	-0.21	-0.24	6513	4.4
18	O043	B	-1.768	0.047	0.89	0.43	0.011	0.05	0.89	0.02	0.03	-0.17	0.43	-0.23	-0.22	6507	4.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O043	B	-1.768	0.046	0.89	0.45	0.009	0.05	0.89	0.02	0.03	-0.18	0.45	-0.22	-0.27	6541	3.9
20	O043	B	-1.768	0.046	0.89	0.45	0.010	0.05	0.89	0.02	0.03	-0.17	0.45	-0.23	-0.24	6497	5.2
1	O044	A	-1.615	0.039	0.86	0.57	0.014	0.86	0.04	0.04	0.05	0.57	-0.28	-0.31	-0.20	6890	-6.9
2	O044	A	-1.615	0.042	0.87	0.54	0.014	0.87	0.04	0.04	0.04	0.54	-0.25	-0.30	-0.20	6546	-3.1
3	O044	A	-1.615	0.041	0.87	0.55	0.012	0.87	0.03	0.04	0.05	0.55	-0.26	-0.30	-0.22	6555	-5.3
4	O044	A	-1.615	0.041	0.87	0.55	0.012	0.87	0.03	0.04	0.04	0.55	-0.27	-0.33	-0.21	6526	-5.8
5	O044	A	-1.615	0.041	0.88	0.53	0.012	0.88	0.04	0.03	0.04	0.53	-0.27	-0.29	-0.21	6520	-5.1
6	O044	A	-1.615	0.042	0.87	0.50	0.010	0.87	0.04	0.04	0.05	0.50	-0.26	-0.26	-0.21	6532	-2.1
7	O044	A	-1.615	0.041	0.87	0.51	0.010	0.87	0.03	0.04	0.05	0.51	-0.23	-0.31	-0.22	6529	-4.0
8	O044	A	-1.615	0.043	0.87	0.55	0.012	0.87	0.03	0.04	0.05	0.55	-0.28	-0.30	-0.22	6532	-3.5
9	O044	A	-1.615	0.042	0.87	0.55	0.012	0.87	0.04	0.04	0.05	0.55	-0.27	-0.31	-0.22	6535	-4.3
10	O044	A	-1.615	0.042	0.87	0.55	0.011	0.87	0.04	0.04	0.04	0.55	-0.27	-0.33	-0.21	6521	-3.8
11	O044	A	-1.615	0.042	0.87	0.57	0.013	0.87	0.04	0.04	0.04	0.57	-0.29	-0.30	-0.21	6488	-6.1
12	O044	A	-1.615	0.041	0.87	0.53	0.011	0.87	0.04	0.03	0.05	0.53	-0.25	-0.30	-0.22	6528	-5.8
13	O044	A	-1.615	0.042	0.88	0.53	0.012	0.88	0.04	0.04	0.04	0.53	-0.25	-0.30	-0.19	6521	-4.0
14	O044	A	-1.615	0.041	0.87	0.53	0.011	0.87	0.04	0.04	0.04	0.53	-0.24	-0.32	-0.22	6496	-5.9
15	O044	A	-1.615	0.042	0.87	0.54	0.013	0.87	0.04	0.04	0.04	0.54	-0.27	-0.30	-0.19	6489	-5.1
16	O044	A	-1.615	0.041	0.87	0.55	0.010	0.87	0.04	0.04	0.04	0.55	-0.26	-0.31	-0.23	6496	-7.6
17	O044	A	-1.615	0.045	0.87	0.55	0.013	0.87	0.04	0.04	0.05	0.55	-0.25	-0.32	-0.22	6513	-0.6
18	O044	A	-1.615	0.045	0.87	0.53	0.011	0.87	0.04	0.04	0.04	0.53	-0.26	-0.31	-0.19	6507	-1.2
19	O044	A	-1.615	0.044	0.87	0.52	0.010	0.87	0.04	0.03	0.05	0.52	-0.25	-0.29	-0.22	6541	-1.8
20	O044	A	-1.615	0.044	0.87	0.54	0.011	0.87	0.04	0.04	0.04	0.54	-0.26	-0.33	-0.19	6497	-1.0
1	O045	D	-1.001	0.033	0.79	0.55	0.015	0.05	0.11	0.04	0.79	-0.28	-0.22	-0.29	0.55	6890	-4.5
2	O045	D	-1.001	0.036	0.81	0.51	0.015	0.04	0.11	0.03	0.81	-0.27	-0.21	-0.28	0.51	6546	-2.1
3	O045	D	-1.001	0.035	0.80	0.52	0.013	0.04	0.11	0.03	0.80	-0.30	-0.21	-0.28	0.52	6555	-2.6
4	O045	D	-1.001	0.035	0.81	0.52	0.013	0.04	0.11	0.03	0.81	-0.28	-0.22	-0.28	0.52	6526	-3.9
5	O045	D	-1.001	0.035	0.81	0.50	0.013	0.04	0.11	0.03	0.81	-0.28	-0.22	-0.26	0.50	6520	-3.7
6	O045	D	-1.001	0.036	0.80	0.50	0.011	0.03	0.12	0.04	0.80	-0.27	-0.22	-0.30	0.50	6532	-0.7
7	O045	D	-1.001	0.035	0.80	0.50	0.011	0.04	0.11	0.03	0.80	-0.28	-0.21	-0.29	0.50	6529	-2.0
8	O045	D	-1.001	0.036	0.80	0.52	0.013	0.04	0.11	0.03	0.80	-0.28	-0.23	-0.27	0.52	6532	-1.3
9	O045	D	-1.001	0.035	0.81	0.52	0.012	0.04	0.11	0.03	0.81	-0.30	-0.21	-0.28	0.52	6535	-3.7
10	O045	D	-1.001	0.036	0.81	0.52	0.012	0.04	0.10	0.04	0.81	-0.31	-0.22	-0.28	0.52	6521	-0.1
11	O045	D	-1.001	0.035	0.81	0.51	0.014	0.04	0.11	0.03	0.81	-0.28	-0.20	-0.27	0.51	6488	-2.4
12	O045	D	-1.001	0.035	0.82	0.50	0.012	0.04	0.10	0.03	0.82	-0.26	-0.23	-0.28	0.50	6528	-5.1
13	O045	D	-1.001	0.036	0.81	0.51	0.013	0.03	0.11	0.04	0.81	-0.25	-0.23	-0.28	0.51	6521	-1.6
14	O045	D	-1.001	0.035	0.81	0.50	0.012	0.03	0.12	0.03	0.81	-0.25	-0.22	-0.29	0.50	6496	-3.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O045	D	-1.001	0.035	0.81	0.52	0.014	0.04	0.11	0.03	0.81	-0.25	-0.21	-0.31	0.52	6489	-2.0
16	O045	D	-1.001	0.035	0.81	0.50	0.011	0.04	0.11	0.03	0.81	-0.27	-0.24	-0.25	0.50	6496	-3.3
17	O045	D	-1.001	0.038	0.81	0.52	0.013	0.04	0.11	0.04	0.81	-0.27	-0.21	-0.28	0.52	6513	2.2
18	O045	D	-1.001	0.038	0.81	0.51	0.012	0.04	0.11	0.03	0.81	-0.29	-0.21	-0.28	0.51	6507	3.1
19	O045	D	-1.001	0.037	0.80	0.51	0.011	0.04	0.11	0.03	0.80	-0.28	-0.22	-0.29	0.51	6541	2.0
20	O045	D	-1.001	0.037	0.81	0.51	0.012	0.04	0.11	0.03	0.81	-0.28	-0.21	-0.29	0.51	6497	0.8
1	O046	D	-1.417	0.037	0.83	0.55	0.015	0.09	0.03	0.03	0.83	-0.29	-0.23	-0.24	0.55	6890	-4.8
2	O046	D	-1.417	0.040	0.85	0.52	0.015	0.08	0.03	0.03	0.85	-0.26	-0.23	-0.25	0.52	6546	-2.7
3	O046	D	-1.417	0.039	0.85	0.54	0.013	0.08	0.04	0.03	0.85	-0.30	-0.22	-0.25	0.54	6555	-4.6
4	O046	D	-1.417	0.039	0.85	0.51	0.012	0.08	0.03	0.02	0.85	-0.27	-0.24	-0.26	0.51	6526	-3.8
5	O046	D	-1.417	0.039	0.86	0.53	0.011	0.08	0.03	0.02	0.86	-0.29	-0.23	-0.25	0.53	6520	-4.8
6	O046	D	-1.417	0.040	0.85	0.51	0.011	0.08	0.03	0.03	0.85	-0.28	-0.21	-0.26	0.51	6532	-1.9
7	O046	D	-1.417	0.039	0.85	0.51	0.010	0.08	0.03	0.03	0.85	-0.27	-0.21	-0.27	0.51	6529	-3.3
8	O046	D	-1.417	0.040	0.85	0.52	0.012	0.08	0.03	0.03	0.85	-0.27	-0.21	-0.26	0.52	6532	-2.3
9	O046	D	-1.417	0.039	0.85	0.52	0.012	0.08	0.04	0.03	0.85	-0.23	-0.26	-0.28	0.52	6535	-4.5
10	O046	D	-1.417	0.040	0.84	0.52	0.012	0.08	0.04	0.03	0.84	-0.28	-0.22	-0.27	0.52	6521	-1.2
11	O046	D	-1.417	0.039	0.85	0.51	0.013	0.08	0.04	0.02	0.85	-0.25	-0.22	-0.24	0.51	6488	-2.6
12	O046	D	-1.417	0.039	0.85	0.51	0.011	0.08	0.04	0.02	0.85	-0.29	-0.22	-0.23	0.51	6528	-4.9
13	O046	D	-1.417	0.040	0.85	0.52	0.013	0.08	0.03	0.03	0.85	-0.28	-0.21	-0.25	0.52	6521	-2.7
14	O046	D	-1.417	0.039	0.86	0.51	0.011	0.08	0.03	0.02	0.86	-0.28	-0.21	-0.24	0.51	6496	-5.1
15	O046	D	-1.417	0.039	0.85	0.53	0.014	0.08	0.04	0.02	0.85	-0.26	-0.25	-0.24	0.53	6489	-2.9
16	O046	D	-1.417	0.038	0.86	0.51	0.011	0.07	0.04	0.02	0.86	-0.27	-0.22	-0.26	0.51	6496	-5.4
17	O046	D	-1.417	0.042	0.85	0.51	0.014	0.08	0.04	0.02	0.85	-0.27	-0.23	-0.23	0.51	6513	-0.1
18	O046	D	-1.417	0.042	0.85	0.54	0.012	0.08	0.03	0.02	0.85	-0.30	-0.24	-0.24	0.54	6507	-1.3
19	O046	D	-1.417	0.042	0.85	0.51	0.010	0.08	0.04	0.02	0.85	-0.27	-0.23	-0.26	0.51	6541	-0.5
20	O046	D	-1.417	0.041	0.85	0.51	0.010	0.08	0.03	0.03	0.85	-0.27	-0.22	-0.26	0.51	6497	-0.9
1	O047	A	-1.894	0.042	0.88	0.59	0.016	0.88	0.06	0.03	0.02	0.59	-0.30	-0.30	-0.22	6890	-6.5
2	O047	A	-1.894	0.046	0.89	0.55	0.014	0.89	0.05	0.02	0.02	0.55	-0.27	-0.27	-0.24	6546	-4.3
3	O047	A	-1.894	0.045	0.89	0.57	0.012	0.89	0.05	0.03	0.02	0.57	-0.28	-0.30	-0.23	6555	-5.7
4	O047	A	-1.894	0.045	0.89	0.57	0.013	0.89	0.05	0.03	0.02	0.57	-0.30	-0.29	-0.27	6526	-6.5
5	O047	A	-1.894	0.045	0.90	0.54	0.012	0.90	0.05	0.02	0.02	0.54	-0.30	-0.25	-0.23	6520	-7.6
6	O047	A	-1.894	0.046	0.90	0.54	0.010	0.90	0.05	0.02	0.02	0.54	-0.30	-0.26	-0.25	6532	-6.1
7	O047	A	-1.894	0.045	0.90	0.54	0.010	0.90	0.05	0.02	0.02	0.54	-0.29	-0.28	-0.25	6529	-7.1
8	O047	A	-1.894	0.046	0.89	0.56	0.013	0.89	0.05	0.02	0.02	0.56	-0.27	-0.29	-0.26	6532	-4.3
9	O047	A	-1.894	0.045	0.89	0.56	0.012	0.89	0.05	0.03	0.02	0.56	-0.28	-0.30	-0.25	6535	-6.4
10	O047	A	-1.894	0.046	0.89	0.56	0.012	0.89	0.05	0.03	0.02	0.56	-0.29	-0.31	-0.25	6521	-5.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O047	A	-1.894	0.046	0.89	0.57	0.013	0.89	0.05	0.02	0.02	0.57	-0.29	-0.27	-0.23	6488	-5.9
12	O047	A	-1.894	0.045	0.90	0.53	0.012	0.90	0.05	0.02	0.02	0.53	-0.27	-0.28	-0.23	6528	-6.2
13	O047	A	-1.894	0.046	0.89	0.54	0.012	0.89	0.05	0.02	0.02	0.54	-0.26	-0.27	-0.25	6521	-4.3
14	O047	A	-1.894	0.045	0.89	0.53	0.011	0.89	0.05	0.03	0.02	0.53	-0.27	-0.27	-0.25	6496	-5.3
15	O047	A	-1.894	0.046	0.90	0.55	0.013	0.90	0.04	0.02	0.02	0.55	-0.25	-0.29	-0.24	6489	-5.9
16	O047	A	-1.894	0.044	0.90	0.54	0.011	0.90	0.05	0.02	0.02	0.54	-0.29	-0.27	-0.23	6496	-7.3
17	O047	A	-1.894	0.049	0.89	0.55	0.013	0.89	0.05	0.02	0.02	0.55	-0.28	-0.28	-0.23	6513	-2.5
18	O047	A	-1.894	0.049	0.89	0.54	0.013	0.89	0.05	0.03	0.02	0.54	-0.25	-0.31	-0.25	6507	-1.2
19	O047	A	-1.894	0.048	0.90	0.54	0.011	0.90	0.05	0.02	0.02	0.54	-0.27	-0.28	-0.25	6541	-3.7
20	O047	A	-1.894	0.048	0.89	0.56	0.011	0.89	0.05	0.02	0.02	0.56	-0.31	-0.27	-0.23	6497	-3.4
1	O048	A	-0.599	0.031	0.73	0.58	0.018	0.73	0.10	0.09	0.07	0.58	-0.29	-0.27	-0.21	6890	-7.7
2	O048	A	-0.599	0.033	0.76	0.58	0.016	0.76	0.09	0.08	0.06	0.58	-0.31	-0.26	-0.21	6546	-6.7
3	O048	A	-0.599	0.032	0.75	0.58	0.014	0.75	0.09	0.08	0.06	0.58	-0.30	-0.28	-0.23	6555	-8.0
4	O048	A	-0.599	0.032	0.75	0.57	0.013	0.75	0.09	0.08	0.06	0.57	-0.30	-0.28	-0.23	6526	-7.6
5	O048	A	-0.599	0.032	0.75	0.57	0.013	0.75	0.09	0.09	0.06	0.57	-0.32	-0.27	-0.21	6520	-6.9
6	O048	A	-0.599	0.033	0.76	0.57	0.011	0.76	0.09	0.08	0.06	0.57	-0.31	-0.29	-0.22	6532	-7.1
7	O048	A	-0.599	0.032	0.75	0.58	0.012	0.75	0.09	0.08	0.07	0.58	-0.32	-0.28	-0.22	6529	-7.1
8	O048	A	-0.599	0.033	0.76	0.57	0.014	0.76	0.09	0.08	0.07	0.57	-0.32	-0.26	-0.22	6532	-6.1
9	O048	A	-0.599	0.032	0.75	0.59	0.013	0.75	0.09	0.08	0.06	0.59	-0.30	-0.28	-0.24	6535	-8.2
10	O048	A	-0.599	0.033	0.75	0.57	0.014	0.75	0.09	0.08	0.07	0.57	-0.31	-0.29	-0.21	6521	-4.7
11	O048	A	-0.599	0.032	0.75	0.57	0.015	0.75	0.10	0.08	0.06	0.57	-0.31	-0.27	-0.19	6488	-5.9
12	O048	A	-0.599	0.032	0.76	0.58	0.013	0.76	0.09	0.07	0.07	0.58	-0.31	-0.26	-0.24	6528	-9.0
13	O048	A	-0.599	0.033	0.75	0.57	0.015	0.75	0.09	0.08	0.06	0.57	-0.28	-0.28	-0.23	6521	-6.1
14	O048	A	-0.599	0.032	0.75	0.56	0.013	0.75	0.09	0.08	0.07	0.56	-0.31	-0.25	-0.22	6496	-7.5
15	O048	A	-0.599	0.032	0.75	0.56	0.014	0.75	0.09	0.08	0.07	0.56	-0.29	-0.24	-0.24	6489	-5.8
16	O048	A	-0.599	0.032	0.75	0.57	0.013	0.75	0.09	0.08	0.07	0.57	-0.28	-0.27	-0.26	6496	-8.2
17	O048	A	-0.599	0.034	0.75	0.57	0.015	0.75	0.09	0.08	0.06	0.57	-0.31	-0.27	-0.19	6513	-1.8
18	O048	A	-0.599	0.034	0.75	0.58	0.014	0.75	0.09	0.08	0.07	0.58	-0.31	-0.27	-0.23	6507	-1.7
19	O048	A	-0.599	0.034	0.76	0.57	0.012	0.76	0.09	0.08	0.06	0.57	-0.31	-0.28	-0.23	6541	-4.0
20	O048	A	-0.599	0.034	0.75	0.59	0.011	0.75	0.09	0.08	0.07	0.59	-0.31	-0.28	-0.25	6497	-3.2
1	O049	B	-0.779	0.032	0.78	0.43	0.017	0.03	0.78	0.12	0.06	-0.25	0.43	-0.16	-0.18	6890	3.3
2	O049	B	-0.779	0.034	0.78	0.40	0.016	0.03	0.78	0.12	0.05	-0.26	0.40	-0.15	-0.17	6546	6.5
3	O049	B	-0.779	0.034	0.79	0.41	0.013	0.03	0.79	0.12	0.05	-0.27	0.41	-0.14	-0.20	6555	2.9
4	O049	B	-0.779	0.033	0.79	0.39	0.014	0.02	0.79	0.12	0.05	-0.26	0.39	-0.15	-0.17	6526	4.0
5	O049	B	-0.779	0.033	0.79	0.39	0.013	0.03	0.79	0.12	0.06	-0.25	0.39	-0.15	-0.18	6520	4.2
6	O049	B	-0.779	0.034	0.79	0.41	0.011	0.03	0.79	0.12	0.05	-0.27	0.41	-0.15	-0.21	6532	4.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O049	B	-0.779	0.033	0.79	0.39	0.010	0.03	0.79	0.12	0.06	-0.28	0.39	-0.16	-0.16	6529	5.1
8	O049	B	-0.779	0.034	0.79	0.41	0.013	0.03	0.79	0.12	0.05	-0.26	0.41	-0.16	-0.18	6532	7.0
9	O049	B	-0.779	0.034	0.79	0.39	0.012	0.02	0.79	0.11	0.06	-0.27	0.39	-0.16	-0.15	6535	3.1
10	O049	B	-0.779	0.034	0.78	0.40	0.013	0.03	0.78	0.12	0.06	-0.27	0.40	-0.16	-0.17	6521	6.5
11	O049	B	-0.779	0.034	0.79	0.40	0.015	0.03	0.79	0.12	0.06	-0.23	0.40	-0.16	-0.18	6488	3.3
12	O049	B	-0.779	0.033	0.79	0.38	0.012	0.03	0.79	0.12	0.05	-0.25	0.38	-0.16	-0.17	6528	3.4
13	O049	B	-0.779	0.034	0.79	0.39	0.013	0.03	0.79	0.11	0.06	-0.26	0.39	-0.15	-0.17	6521	5.1
14	O049	B	-0.779	0.033	0.79	0.39	0.012	0.02	0.79	0.12	0.06	-0.22	0.39	-0.16	-0.19	6496	2.1
15	O049	B	-0.779	0.034	0.79	0.39	0.013	0.03	0.79	0.12	0.05	-0.25	0.39	-0.15	-0.17	6489	5.1
16	O049	B	-0.779	0.033	0.79	0.38	0.011	0.03	0.79	0.12	0.05	-0.25	0.38	-0.16	-0.15	6496	2.9
17	O049	B	-0.779	0.036	0.78	0.41	0.014	0.03	0.78	0.12	0.05	-0.27	0.41	-0.15	-0.18	6513	9.8
18	O049	B	-0.779	0.036	0.79	0.38	0.012	0.02	0.79	0.12	0.05	-0.23	0.38	-0.15	-0.19	6507	9.8
19	O049	B	-0.779	0.035	0.79	0.38	0.012	0.03	0.79	0.12	0.06	-0.28	0.38	-0.13	-0.18	6541	8.4
20	O049	B	-0.779	0.035	0.78	0.40	0.011	0.03	0.78	0.12	0.06	-0.26	0.40	-0.15	-0.19	6497	8.1
1	O116	A	-1.912	0.042	0.90	0.33	0.009	0.90	0.02	0.06	0.01	0.33	-0.11	-0.17	-0.12	6890	4.9
2	O116	A	-1.912	0.046	0.91	0.34	0.006	0.91	0.02	0.05	0.02	0.34	-0.17	-0.18	-0.11	6546	5.3
3	O116	A	-1.912	0.045	0.90	0.34	0.005	0.90	0.02	0.06	0.02	0.34	-0.12	-0.19	-0.15	6555	4.2
4	O116	A	-1.912	0.045	0.90	0.33	0.004	0.90	0.02	0.06	0.02	0.33	-0.14	-0.19	-0.13	6526	4.1
5	O116	A	-1.912	0.045	0.91	0.34	0.005	0.91	0.02	0.05	0.02	0.34	-0.18	-0.20	-0.08	6520	2.6
6	O116	A	-1.912	0.046	0.90	0.33	0.004	0.90	0.02	0.06	0.01	0.33	-0.12	-0.22	-0.12	6532	3.8
7	O116	A	-1.912	0.045	0.91	0.32	0.004	0.91	0.02	0.06	0.01	0.32	-0.14	-0.19	-0.11	6529	2.7
8	O116	A	-1.912	0.047	0.91	0.34	0.005	0.91	0.02	0.05	0.01	0.34	-0.16	-0.20	-0.10	6532	3.1
9	O116	A	-1.912	0.046	0.90	0.33	0.005	0.90	0.02	0.06	0.02	0.33	-0.16	-0.18	-0.11	6535	4.6
10	O116	A	-1.912	0.046	0.91	0.32	0.004	0.91	0.02	0.06	0.01	0.32	-0.18	-0.17	-0.11	6521	3.3
11	O116	A	-1.912	0.046	0.90	0.32	0.006	0.90	0.02	0.06	0.02	0.32	-0.12	-0.19	-0.12	6488	4.4
12	O116	A	-1.912	0.045	0.91	0.31	0.005	0.91	0.02	0.05	0.01	0.31	-0.14	-0.18	-0.10	6528	2.7
13	O116	A	-1.912	0.046	0.90	0.32	0.005	0.90	0.02	0.06	0.02	0.32	-0.12	-0.19	-0.09	6521	4.7
14	O116	A	-1.912	0.045	0.90	0.33	0.006	0.90	0.02	0.07	0.02	0.33	-0.11	-0.20	-0.12	6496	4.4
15	O116	A	-1.912	0.046	0.91	0.34	0.007	0.91	0.02	0.06	0.01	0.34	-0.15	-0.19	-0.11	6489	2.3
16	O116	A	-1.912	0.045	0.91	0.30	0.004	0.91	0.02	0.05	0.02	0.30	-0.13	-0.18	-0.10	6496	3.1
17	O116	A	-1.912	0.049	0.90	0.34	0.005	0.90	0.02	0.06	0.02	0.34	-0.18	-0.19	-0.11	6513	6.4
18	O116	A	-1.912	0.049	0.91	0.31	0.004	0.91	0.02	0.05	0.01	0.31	-0.12	-0.19	-0.11	6507	5.6
19	O116	A	-1.912	0.049	0.90	0.33	0.004	0.90	0.02	0.06	0.02	0.33	-0.15	-0.19	-0.12	6541	5.4
20	O116	A	-1.912	0.048	0.90	0.30	0.005	0.90	0.02	0.06	0.02	0.30	-0.14	-0.17	-0.10	6497	8.4
1	O117	C	-1.095	0.034	0.80	0.52	0.009	0.01	0.04	0.80	0.14	-0.17	-0.25	0.52	-0.32	6890	-3.9
2	O117	C	-1.095	0.037	0.83	0.48	0.005	0.01	0.04	0.83	0.12	-0.18	-0.27	0.48	-0.28	6546	-2.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O117	C	-1.095	0.036	0.82	0.48	0.005	0.01	0.05	0.82	0.12	-0.20	-0.27	0.48	-0.27	6555	-2.1
4	O117	C	-1.095	0.036	0.83	0.46	0.004	0.01	0.05	0.83	0.12	-0.17	-0.28	0.46	-0.26	6526	-2.5
5	O117	C	-1.095	0.036	0.82	0.49	0.005	0.01	0.05	0.82	0.12	-0.17	-0.28	0.49	-0.29	6520	-3.0
6	O117	C	-1.095	0.036	0.82	0.47	0.004	0.01	0.05	0.82	0.12	-0.19	-0.28	0.47	-0.27	6532	-1.0
7	O117	C	-1.095	0.036	0.83	0.47	0.005	0.01	0.04	0.83	0.11	-0.17	-0.27	0.47	-0.27	6529	-4.3
8	O117	C	-1.095	0.037	0.82	0.47	0.005	0.01	0.05	0.82	0.12	-0.17	-0.27	0.47	-0.27	6532	-0.2
9	O117	C	-1.095	0.036	0.82	0.47	0.005	0.01	0.04	0.82	0.12	-0.15	-0.26	0.47	-0.29	6535	-1.9
10	O117	C	-1.095	0.037	0.83	0.48	0.004	0.01	0.04	0.83	0.12	-0.21	-0.26	0.48	-0.29	6521	-2.6
11	O117	C	-1.095	0.036	0.83	0.46	0.006	0.01	0.04	0.83	0.11	-0.19	-0.24	0.46	-0.28	6488	-3.2
12	O117	C	-1.095	0.036	0.83	0.44	0.004	0.01	0.04	0.83	0.12	-0.17	-0.25	0.44	-0.27	6528	-2.5
13	O117	C	-1.095	0.037	0.83	0.48	0.005	0.01	0.04	0.83	0.12	-0.18	-0.25	0.48	-0.29	6521	-2.4
14	O117	C	-1.095	0.036	0.83	0.47	0.005	0.01	0.04	0.83	0.11	-0.21	-0.27	0.47	-0.27	6496	-5.4
15	O117	C	-1.095	0.036	0.82	0.49	0.006	0.01	0.04	0.82	0.12	-0.19	-0.25	0.49	-0.29	6489	-2.6
16	O117	C	-1.095	0.035	0.82	0.45	0.004	0.01	0.04	0.82	0.12	-0.16	-0.26	0.45	-0.28	6496	-3.4
17	O117	C	-1.095	0.039	0.82	0.48	0.005	0.01	0.05	0.82	0.12	-0.20	-0.24	0.48	-0.29	6513	1.1
18	O117	C	-1.095	0.038	0.82	0.48	0.004	0.01	0.04	0.82	0.12	-0.18	-0.29	0.48	-0.28	6507	0.4
19	O117	C	-1.095	0.038	0.83	0.48	0.004	0.01	0.04	0.83	0.12	-0.19	-0.24	0.48	-0.31	6541	-1.2
20	O117	C	-1.095	0.038	0.82	0.47	0.005	0.01	0.04	0.82	0.13	-0.18	-0.24	0.47	-0.29	6497	1.2
1	O118	B	-0.485	0.030	0.74	0.42	0.010	0.05	0.74	0.02	0.17	-0.19	0.42	-0.24	-0.19	6890	0.0
2	O118	B	-0.485	0.032	0.75	0.45	0.005	0.05	0.75	0.02	0.17	-0.21	0.45	-0.25	-0.24	6546	0.8
3	O118	B	-0.485	0.032	0.74	0.43	0.005	0.05	0.74	0.03	0.18	-0.21	0.43	-0.25	-0.22	6555	1.8
4	O118	B	-0.485	0.031	0.75	0.42	0.005	0.05	0.75	0.03	0.17	-0.19	0.42	-0.24	-0.23	6526	0.8
5	O118	B	-0.485	0.032	0.76	0.42	0.005	0.05	0.76	0.02	0.17	-0.20	0.42	-0.22	-0.23	6520	0.2
6	O118	B	-0.485	0.032	0.75	0.45	0.005	0.05	0.75	0.02	0.17	-0.21	0.45	-0.23	-0.27	6532	-0.6
7	O118	B	-0.485	0.031	0.76	0.42	0.005	0.05	0.76	0.02	0.17	-0.18	0.42	-0.23	-0.25	6529	-0.4
8	O118	B	-0.485	0.032	0.77	0.43	0.005	0.05	0.77	0.02	0.16	-0.20	0.43	-0.23	-0.23	6532	0.2
9	O118	B	-0.485	0.032	0.76	0.41	0.005	0.05	0.76	0.02	0.17	-0.19	0.41	-0.22	-0.22	6535	0.6
10	O118	B	-0.485	0.032	0.74	0.43	0.005	0.05	0.74	0.03	0.18	-0.19	0.43	-0.25	-0.23	6521	2.1
11	O118	B	-0.485	0.032	0.75	0.41	0.006	0.05	0.75	0.02	0.17	-0.17	0.41	-0.23	-0.22	6488	0.5
12	O118	B	-0.485	0.031	0.76	0.44	0.005	0.05	0.76	0.02	0.16	-0.20	0.44	-0.22	-0.25	6528	-1.7
13	O118	B	-0.485	0.032	0.74	0.41	0.006	0.05	0.74	0.02	0.19	-0.15	0.41	-0.21	-0.25	6521	4.5
14	O118	B	-0.485	0.031	0.74	0.42	0.006	0.05	0.74	0.02	0.19	-0.17	0.42	-0.24	-0.23	6496	1.4
15	O118	B	-0.485	0.032	0.75	0.40	0.007	0.05	0.75	0.02	0.18	-0.16	0.40	-0.22	-0.22	6489	3.1
16	O118	B	-0.485	0.031	0.75	0.42	0.005	0.05	0.75	0.02	0.18	-0.17	0.42	-0.22	-0.25	6496	-0.4
17	O118	B	-0.485	0.034	0.76	0.42	0.006	0.05	0.76	0.02	0.17	-0.21	0.42	-0.24	-0.22	6513	6.5
18	O118	B	-0.485	0.033	0.75	0.41	0.004	0.05	0.75	0.02	0.18	-0.16	0.41	-0.26	-0.23	6507	6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O118	B	-0.485	0.033	0.75	0.44	0.005	0.05	0.75	0.02	0.18	-0.19	0.44	-0.25	-0.26	6541	1.8
20	O118	B	-0.485	0.033	0.75	0.42	0.005	0.05	0.75	0.02	0.18	-0.18	0.42	-0.24	-0.24	6497	4.1
1	O119	C	-0.401	0.030	0.73	0.29	0.010	0.05	0.18	0.73	0.03	-0.23	-0.04	0.29	-0.17	6890	9.9
2	O119	C	-0.401	0.032	0.74	0.24	0.006	0.04	0.19	0.74	0.03	-0.21	-0.05	0.24	-0.14	6546	9.9
3	O119	C	-0.401	0.031	0.74	0.27	0.006	0.05	0.18	0.74	0.03	-0.24	-0.06	0.27	-0.16	6555	9.9
4	O119	C	-0.401	0.031	0.74	0.28	0.005	0.05	0.18	0.74	0.03	-0.23	-0.07	0.28	-0.19	6526	9.9
5	O119	C	-0.401	0.031	0.75	0.24	0.006	0.04	0.17	0.75	0.03	-0.21	-0.03	0.24	-0.19	6520	9.9
6	O119	C	-0.401	0.031	0.74	0.23	0.005	0.04	0.19	0.74	0.03	-0.20	-0.05	0.23	-0.15	6532	9.9
7	O119	C	-0.401	0.031	0.74	0.26	0.006	0.04	0.18	0.74	0.03	-0.22	-0.06	0.26	-0.18	6529	9.9
8	O119	C	-0.401	0.032	0.73	0.26	0.006	0.05	0.19	0.73	0.03	-0.21	-0.06	0.26	-0.17	6532	9.9
9	O119	C	-0.401	0.031	0.74	0.25	0.005	0.05	0.19	0.74	0.03	-0.23	-0.04	0.25	-0.19	6535	9.9
10	O119	C	-0.401	0.032	0.75	0.24	0.005	0.04	0.18	0.75	0.03	-0.20	-0.06	0.24	-0.17	6521	9.9
11	O119	C	-0.401	0.031	0.76	0.26	0.006	0.04	0.17	0.76	0.02	-0.21	-0.06	0.26	-0.16	6488	9.9
12	O119	C	-0.401	0.031	0.74	0.27	0.005	0.05	0.18	0.74	0.03	-0.21	-0.07	0.27	-0.17	6528	9.9
13	O119	C	-0.401	0.032	0.74	0.25	0.006	0.04	0.18	0.74	0.03	-0.22	-0.04	0.25	-0.17	6521	9.9
14	O119	C	-0.401	0.031	0.74	0.25	0.006	0.05	0.19	0.74	0.03	-0.20	-0.06	0.25	-0.16	6496	9.9
15	O119	C	-0.401	0.031	0.75	0.25	0.008	0.05	0.17	0.75	0.03	-0.21	-0.04	0.25	-0.15	6489	9.9
16	O119	C	-0.401	0.031	0.74	0.24	0.006	0.05	0.18	0.74	0.03	-0.22	-0.04	0.24	-0.14	6496	9.9
17	O119	C	-0.401	0.033	0.75	0.26	0.006	0.05	0.17	0.75	0.03	-0.20	-0.06	0.26	-0.17	6513	9.9
18	O119	C	-0.401	0.033	0.74	0.24	0.005	0.05	0.18	0.74	0.03	-0.23	-0.04	0.24	-0.16	6507	9.9
19	O119	C	-0.401	0.032	0.74	0.24	0.005	0.04	0.19	0.74	0.03	-0.20	-0.05	0.24	-0.17	6541	9.9
20	O119	C	-0.401	0.032	0.75	0.24	0.006	0.04	0.18	0.75	0.03	-0.20	-0.05	0.24	-0.16	6497	9.9
1	O120	D	-0.544	0.030	0.73	0.51	0.010	0.07	0.05	0.14	0.73	-0.21	-0.25	-0.25	0.51	6890	-5.0
2	O120	D	-0.544	0.032	0.75	0.48	0.006	0.07	0.05	0.13	0.75	-0.19	-0.23	-0.27	0.48	6546	-1.9
3	O120	D	-0.544	0.032	0.75	0.50	0.006	0.07	0.04	0.14	0.75	-0.20	-0.25	-0.28	0.50	6555	-4.0
4	O120	D	-0.544	0.032	0.76	0.49	0.004	0.06	0.04	0.13	0.76	-0.20	-0.25	-0.28	0.49	6526	-4.2
5	O120	D	-0.544	0.032	0.75	0.50	0.006	0.07	0.04	0.13	0.75	-0.21	-0.23	-0.28	0.50	6520	-4.5
6	O120	D	-0.544	0.032	0.75	0.50	0.004	0.06	0.05	0.13	0.75	-0.19	-0.25	-0.29	0.50	6532	-3.9
7	O120	D	-0.544	0.032	0.76	0.49	0.005	0.07	0.04	0.12	0.76	-0.22	-0.23	-0.27	0.49	6529	-5.4
8	O120	D	-0.544	0.033	0.77	0.50	0.005	0.06	0.04	0.12	0.77	-0.22	-0.24	-0.26	0.50	6532	-3.3
9	O120	D	-0.544	0.032	0.76	0.49	0.005	0.07	0.05	0.13	0.76	-0.20	-0.24	-0.28	0.49	6535	-4.2
10	O120	D	-0.544	0.032	0.75	0.50	0.004	0.07	0.05	0.13	0.75	-0.20	-0.25	-0.29	0.50	6521	-2.4
11	O120	D	-0.544	0.032	0.75	0.48	0.005	0.07	0.05	0.13	0.75	-0.22	-0.21	-0.26	0.48	6488	-2.7
12	O120	D	-0.544	0.032	0.75	0.50	0.005	0.07	0.05	0.13	0.75	-0.21	-0.24	-0.28	0.50	6528	-6.1
13	O120	D	-0.544	0.032	0.75	0.49	0.006	0.06	0.05	0.13	0.75	-0.20	-0.22	-0.28	0.49	6521	-0.9
14	O120	D	-0.544	0.031	0.76	0.49	0.006	0.06	0.05	0.13	0.76	-0.22	-0.21	-0.27	0.49	6496	-5.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O120	D	-0.544	0.032	0.75	0.48	0.007	0.07	0.04	0.13	0.75	-0.20	-0.22	-0.26	0.48	6489	-3.5
16	O120	D	-0.544	0.031	0.75	0.50	0.005	0.07	0.04	0.14	0.75	-0.21	-0.22	-0.29	0.50	6496	-5.8
17	O120	D	-0.544	0.034	0.75	0.49	0.006	0.07	0.05	0.13	0.75	-0.21	-0.24	-0.26	0.49	6513	1.4
18	O120	D	-0.544	0.034	0.76	0.48	0.005	0.06	0.05	0.13	0.76	-0.21	-0.23	-0.26	0.48	6507	0.9
19	O120	D	-0.544	0.033	0.75	0.49	0.005	0.06	0.04	0.14	0.75	-0.22	-0.21	-0.28	0.49	6541	-0.2
20	O120	D	-0.544	0.033	0.75	0.49	0.005	0.07	0.04	0.14	0.75	-0.19	-0.23	-0.29	0.49	6497	-0.5
1	O121	B	0.096	0.028	0.64	0.49	0.009	0.07	0.64	0.17	0.12	-0.27	0.49	-0.26	-0.11	6890	-3.5
2	O121	B	0.096	0.029	0.65	0.48	0.006	0.07	0.65	0.17	0.10	-0.24	0.48	-0.30	-0.10	6546	-1.2
3	O121	B	0.096	0.029	0.65	0.49	0.007	0.07	0.65	0.17	0.10	-0.25	0.49	-0.30	-0.13	6555	-3.3
4	O121	B	0.096	0.029	0.67	0.47	0.005	0.07	0.67	0.16	0.10	-0.27	0.47	-0.29	-0.12	6526	-3.0
5	O121	B	0.096	0.029	0.66	0.49	0.006	0.06	0.66	0.17	0.11	-0.26	0.49	-0.31	-0.11	6520	-3.7
6	O121	B	0.096	0.029	0.66	0.49	0.005	0.06	0.66	0.17	0.11	-0.25	0.49	-0.31	-0.13	6532	-1.4
7	O121	B	0.096	0.029	0.66	0.48	0.005	0.06	0.66	0.17	0.10	-0.24	0.48	-0.29	-0.13	6529	-3.2
8	O121	B	0.096	0.030	0.66	0.51	0.006	0.07	0.66	0.16	0.10	-0.27	0.51	-0.31	-0.13	6532	-2.7
9	O121	B	0.096	0.029	0.66	0.48	0.005	0.06	0.66	0.17	0.11	-0.24	0.48	-0.31	-0.11	6535	-3.0
10	O121	B	0.096	0.030	0.65	0.48	0.005	0.07	0.65	0.16	0.11	-0.28	0.48	-0.29	-0.11	6521	0.7
11	O121	B	0.096	0.029	0.65	0.48	0.006	0.06	0.65	0.18	0.11	-0.23	0.48	-0.32	-0.10	6488	-3.6
12	O121	B	0.096	0.029	0.66	0.50	0.005	0.07	0.66	0.17	0.10	-0.27	0.50	-0.33	-0.10	6528	-5.4
13	O121	B	0.096	0.029	0.65	0.49	0.006	0.07	0.65	0.17	0.11	-0.26	0.49	-0.31	-0.10	6521	-1.2
14	O121	B	0.096	0.029	0.66	0.47	0.006	0.07	0.66	0.17	0.10	-0.25	0.47	-0.30	-0.09	6496	-3.9
15	O121	B	0.096	0.029	0.65	0.49	0.008	0.06	0.65	0.17	0.11	-0.26	0.49	-0.30	-0.10	6489	-3.3
16	O121	B	0.096	0.029	0.65	0.49	0.005	0.07	0.65	0.17	0.11	-0.26	0.49	-0.32	-0.10	6496	-4.4
17	O121	B	0.096	0.030	0.65	0.49	0.006	0.07	0.65	0.17	0.11	-0.26	0.49	-0.32	-0.09	6513	3.3
18	O121	B	0.096	0.030	0.66	0.47	0.005	0.06	0.66	0.16	0.11	-0.26	0.47	-0.30	-0.12	6507	2.5
19	O121	B	0.096	0.030	0.65	0.50	0.005	0.06	0.65	0.17	0.11	-0.25	0.50	-0.30	-0.14	6541	0.0
20	O121	B	0.096	0.030	0.66	0.47	0.006	0.06	0.66	0.17	0.10	-0.26	0.47	-0.30	-0.10	6497	1.3
1	O122	B	-1.007	0.033	0.79	0.55	0.010	0.02	0.79	0.14	0.04	-0.24	0.55	-0.30	-0.28	6890	-6.0
2	O122	B	-1.007	0.036	0.81	0.55	0.005	0.02	0.81	0.14	0.03	-0.27	0.55	-0.33	-0.27	6546	-5.3
3	O122	B	-1.007	0.035	0.82	0.53	0.006	0.02	0.82	0.13	0.03	-0.24	0.53	-0.31	-0.27	6555	-7.0
4	O122	B	-1.007	0.035	0.82	0.54	0.004	0.01	0.82	0.13	0.03	-0.23	0.54	-0.34	-0.29	6526	-7.8
5	O122	B	-1.007	0.035	0.82	0.52	0.006	0.02	0.82	0.13	0.03	-0.22	0.52	-0.32	-0.27	6520	-6.3
6	O122	B	-1.007	0.036	0.81	0.53	0.004	0.01	0.81	0.14	0.03	-0.23	0.53	-0.33	-0.27	6532	-5.5
7	O122	B	-1.007	0.035	0.82	0.51	0.005	0.02	0.82	0.13	0.03	-0.26	0.51	-0.30	-0.25	6529	-6.1
8	O122	B	-1.007	0.036	0.83	0.52	0.006	0.02	0.83	0.12	0.03	-0.24	0.52	-0.30	-0.28	6532	-5.6
9	O122	B	-1.007	0.035	0.81	0.53	0.005	0.02	0.81	0.14	0.03	-0.26	0.53	-0.32	-0.27	6535	-6.4
10	O122	B	-1.007	0.036	0.82	0.52	0.004	0.02	0.82	0.13	0.03	-0.25	0.52	-0.32	-0.27	6521	-6.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O122	B	-1.007	0.035	0.81	0.52	0.006	0.02	0.81	0.14	0.03	-0.22	0.52	-0.32	-0.26	6488	-6.4
12	O122	B	-1.007	0.035	0.81	0.50	0.004	0.02	0.81	0.14	0.03	-0.24	0.50	-0.31	-0.24	6528	-6.0
13	O122	B	-1.007	0.036	0.82	0.53	0.006	0.01	0.82	0.13	0.03	-0.23	0.53	-0.31	-0.29	6521	-6.2
14	O122	B	-1.007	0.035	0.81	0.50	0.006	0.01	0.81	0.14	0.03	-0.19	0.50	-0.33	-0.22	6496	-6.0
15	O122	B	-1.007	0.035	0.81	0.54	0.007	0.02	0.81	0.14	0.03	-0.25	0.54	-0.32	-0.26	6489	-7.2
16	O122	B	-1.007	0.035	0.82	0.52	0.005	0.01	0.82	0.13	0.03	-0.23	0.52	-0.32	-0.27	6496	-7.4
17	O122	B	-1.007	0.038	0.81	0.51	0.006	0.02	0.81	0.13	0.03	-0.24	0.51	-0.31	-0.25	6513	-0.8
18	O122	B	-1.007	0.038	0.81	0.53	0.005	0.02	0.81	0.13	0.03	-0.24	0.53	-0.33	-0.27	6507	-1.8
19	O122	B	-1.007	0.037	0.82	0.51	0.005	0.02	0.82	0.14	0.03	-0.23	0.51	-0.32	-0.25	6541	-2.5
20	O122	B	-1.007	0.037	0.81	0.52	0.006	0.02	0.81	0.13	0.03	-0.23	0.52	-0.32	-0.26	6497	-2.7
1	O124	C	-1.356	0.036	0.86	0.56	0.013	0.07	0.02	0.86	0.03	-0.33	-0.25	0.56	-0.21	6890	-5.2
2	O124	C	-1.356	0.039	0.89	0.52	0.008	0.06	0.02	0.89	0.03	-0.32	-0.26	0.52	-0.19	6546	-3.3
3	O124	C	-1.356	0.039	0.88	0.54	0.010	0.06	0.02	0.88	0.03	-0.34	-0.26	0.54	-0.19	6555	-3.3
4	O124	C	-1.356	0.038	0.88	0.54	0.006	0.07	0.02	0.88	0.03	-0.36	-0.27	0.54	-0.19	6526	-4.2
5	O124	C	-1.356	0.038	0.89	0.51	0.008	0.06	0.02	0.89	0.03	-0.31	-0.25	0.51	-0.17	6520	-2.9
6	O124	C	-1.356	0.039	0.88	0.51	0.007	0.06	0.02	0.88	0.03	-0.34	-0.25	0.51	-0.18	6532	-3.3
7	O124	C	-1.356	0.038	0.89	0.52	0.006	0.06	0.02	0.89	0.03	-0.35	-0.24	0.52	-0.18	6529	-4.9
8	O124	C	-1.356	0.040	0.89	0.49	0.008	0.06	0.02	0.89	0.03	-0.30	-0.22	0.49	-0.19	6532	-1.7
9	O124	C	-1.356	0.039	0.88	0.52	0.007	0.06	0.02	0.88	0.03	-0.32	-0.28	0.52	-0.18	6535	-2.7
10	O124	C	-1.356	0.039	0.88	0.52	0.008	0.07	0.02	0.88	0.03	-0.33	-0.26	0.52	-0.18	6521	-1.4
11	O124	C	-1.356	0.039	0.88	0.51	0.009	0.06	0.02	0.88	0.03	-0.32	-0.24	0.51	-0.16	6488	-1.8
12	O124	C	-1.356	0.038	0.88	0.49	0.008	0.06	0.02	0.88	0.03	-0.32	-0.22	0.49	-0.18	6528	-3.6
13	O124	C	-1.356	0.039	0.89	0.50	0.007	0.05	0.02	0.89	0.03	-0.31	-0.24	0.50	-0.18	6521	-4.6
14	O124	C	-1.356	0.038	0.88	0.50	0.009	0.06	0.02	0.88	0.03	-0.31	-0.24	0.50	-0.15	6496	-4.2
15	O124	C	-1.356	0.039	0.88	0.51	0.009	0.06	0.02	0.88	0.03	-0.31	-0.24	0.51	-0.16	6489	-3.2
16	O124	C	-1.356	0.038	0.89	0.49	0.008	0.06	0.02	0.89	0.03	-0.29	-0.26	0.49	-0.16	6496	-2.8
17	O124	C	-1.356	0.042	0.88	0.49	0.009	0.06	0.02	0.88	0.04	-0.30	-0.22	0.49	-0.17	6513	1.9
18	O124	C	-1.356	0.041	0.89	0.52	0.007	0.05	0.02	0.89	0.03	-0.32	-0.27	0.52	-0.18	6507	-1.9
19	O124	C	-1.356	0.041	0.88	0.51	0.008	0.06	0.02	0.88	0.03	-0.32	-0.26	0.51	-0.18	6541	-0.2
20	O124	C	-1.356	0.041	0.89	0.51	0.006	0.06	0.02	0.89	0.03	-0.31	-0.27	0.51	-0.17	6497	-1.3
1	O125	B	-0.245	0.029	0.83	0.54	0.013	0.07	0.83	0.04	0.04	-0.26	0.54	-0.23	-0.26	6890	-4.5
2	O125	B	-0.245	0.031	0.85	0.51	0.008	0.06	0.85	0.05	0.03	-0.25	0.51	-0.24	-0.24	6546	-4.6
3	O125	B	-0.245	0.030	0.84	0.54	0.009	0.07	0.84	0.04	0.04	-0.26	0.54	-0.26	-0.26	6555	-5.0
4	O125	B	-0.245	0.030	0.84	0.53	0.006	0.07	0.84	0.05	0.04	-0.26	0.53	-0.30	-0.25	6526	-4.3
5	O125	B	-0.245	0.030	0.85	0.52	0.008	0.06	0.85	0.04	0.03	-0.28	0.52	-0.24	-0.24	6520	-5.6
6	O125	B	-0.245	0.031	0.85	0.50	0.006	0.06	0.85	0.05	0.04	-0.26	0.50	-0.26	-0.24	6532	-3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O125	B	-0.245	0.030	0.85	0.49	0.007	0.06	0.85	0.05	0.03	-0.24	0.49	-0.26	-0.24	6529	-3.6
8	O125	B	-0.245	0.031	0.85	0.50	0.008	0.06	0.85	0.04	0.04	-0.25	0.50	-0.25	-0.24	6532	-1.8
9	O125	B	-0.245	0.030	0.84	0.54	0.007	0.06	0.84	0.05	0.04	-0.28	0.54	-0.29	-0.24	6535	-4.0
10	O125	B	-0.245	0.031	0.85	0.51	0.008	0.06	0.85	0.04	0.04	-0.26	0.51	-0.24	-0.26	6521	-1.2
11	O125	B	-0.245	0.030	0.85	0.51	0.009	0.06	0.85	0.04	0.04	-0.24	0.51	-0.25	-0.25	6488	-4.3
12	O125	B	-0.245	0.030	0.85	0.50	0.007	0.06	0.85	0.05	0.04	-0.26	0.50	-0.25	-0.23	6528	-4.0
13	O125	B	-0.245	0.031	0.85	0.51	0.007	0.06	0.85	0.04	0.04	-0.24	0.51	-0.26	-0.25	6521	-3.4
14	O125	B	-0.245	0.030	0.85	0.49	0.009	0.06	0.85	0.04	0.03	-0.23	0.49	-0.26	-0.22	6496	-4.7
15	O125	B	-0.245	0.030	0.85	0.52	0.009	0.06	0.85	0.04	0.04	-0.24	0.52	-0.25	-0.25	6489	-4.2
16	O125	B	-0.245	0.030	0.85	0.52	0.008	0.06	0.85	0.05	0.04	-0.25	0.52	-0.27	-0.25	6496	-5.7
17	O125	B	-0.245	0.032	0.85	0.51	0.009	0.07	0.85	0.04	0.04	-0.27	0.51	-0.22	-0.25	6513	-1.4
18	O125	B	-0.245	0.032	0.85	0.48	0.007	0.06	0.85	0.05	0.04	-0.22	0.48	-0.26	-0.22	6507	-0.6
19	O125	B	-0.245	0.031	0.85	0.54	0.008	0.06	0.85	0.04	0.04	-0.26	0.54	-0.28	-0.27	6541	-2.2
20	O125	B	-0.245	0.031	0.85	0.49	0.006	0.06	0.85	0.04	0.04	-0.25	0.49	-0.23	-0.24	6497	-0.7
1	O126	B	-1.075	0.034	0.68	0.52	0.013	0.10	0.68	0.08	0.12	-0.33	0.52	-0.20	-0.16	6890	-4.8
2	O126	B	-1.075	0.037	0.72	0.51	0.009	0.08	0.72	0.08	0.11	-0.35	0.51	-0.20	-0.18	6546	-4.5
3	O126	B	-1.075	0.036	0.70	0.51	0.010	0.09	0.70	0.07	0.12	-0.34	0.51	-0.19	-0.17	6555	-3.1
4	O126	B	-1.075	0.036	0.70	0.50	0.007	0.10	0.70	0.08	0.12	-0.36	0.50	-0.20	-0.16	6526	-3.7
5	O126	B	-1.075	0.036	0.71	0.51	0.008	0.09	0.71	0.07	0.12	-0.33	0.51	-0.21	-0.17	6520	-4.5
6	O126	B	-1.075	0.036	0.71	0.53	0.007	0.10	0.71	0.08	0.11	-0.36	0.53	-0.22	-0.18	6532	-4.6
7	O126	B	-1.075	0.036	0.71	0.51	0.008	0.09	0.71	0.08	0.11	-0.36	0.51	-0.20	-0.17	6529	-5.1
8	O126	B	-1.075	0.037	0.71	0.50	0.009	0.09	0.71	0.08	0.11	-0.34	0.50	-0.21	-0.14	6532	-1.8
9	O126	B	-1.075	0.036	0.71	0.51	0.007	0.09	0.71	0.07	0.12	-0.37	0.51	-0.20	-0.16	6535	-4.7
10	O126	B	-1.075	0.036	0.70	0.51	0.008	0.09	0.70	0.09	0.12	-0.34	0.51	-0.23	-0.15	6521	-2.1
11	O126	B	-1.075	0.036	0.71	0.51	0.009	0.09	0.71	0.08	0.11	-0.36	0.51	-0.18	-0.15	6488	-4.2
12	O126	B	-1.075	0.035	0.71	0.52	0.007	0.09	0.71	0.08	0.12	-0.35	0.52	-0.22	-0.18	6528	-6.0
13	O126	B	-1.075	0.036	0.71	0.50	0.008	0.09	0.71	0.08	0.12	-0.33	0.50	-0.19	-0.17	6521	-3.0
14	O126	B	-1.075	0.035	0.71	0.51	0.009	0.09	0.71	0.08	0.12	-0.35	0.51	-0.17	-0.18	6496	-5.6
15	O126	B	-1.075	0.036	0.72	0.51	0.010	0.09	0.72	0.07	0.11	-0.35	0.51	-0.19	-0.16	6489	-5.3
16	O126	B	-1.075	0.035	0.71	0.53	0.009	0.09	0.71	0.08	0.12	-0.36	0.53	-0.22	-0.17	6496	-6.7
17	O126	B	-1.075	0.038	0.71	0.53	0.009	0.09	0.71	0.08	0.12	-0.37	0.53	-0.21	-0.16	6513	-0.3
18	O126	B	-1.075	0.038	0.72	0.51	0.008	0.09	0.72	0.07	0.11	-0.34	0.51	-0.22	-0.16	6507	-0.3
19	O126	B	-1.075	0.038	0.71	0.51	0.009	0.09	0.71	0.08	0.11	-0.36	0.51	-0.21	-0.15	6541	-1.5
20	O126	B	-1.075	0.038	0.70	0.50	0.007	0.10	0.70	0.08	0.12	-0.35	0.50	-0.19	-0.16	6497	0.8
1	O127	D	0.687	0.016	0.79	0.63	0.013	0.03	0.04	0.13	0.79	-0.22	-0.29	-0.38	0.63	6890	-9.6
2	O127	D	0.687	0.017	0.82	0.61	0.008	0.03	0.03	0.11	0.82	-0.24	-0.27	-0.38	0.61	6546	-8.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O127	D	0.687	0.017	0.82	0.60	0.009	0.03	0.03	0.12	0.82	-0.23	-0.26	-0.39	0.60	6555	-8.7
4	O127	D	0.687	0.017	0.81	0.60	0.006	0.03	0.03	0.13	0.81	-0.23	-0.28	-0.39	0.60	6526	-8.5
5	O127	D	0.687	0.017	0.81	0.59	0.008	0.03	0.03	0.12	0.81	-0.23	-0.24	-0.38	0.59	6520	-8.1
6	O127	D	0.687	0.017	0.82	0.60	0.006	0.03	0.03	0.12	0.82	-0.22	-0.26	-0.40	0.60	6532	-8.0
7	O127	D	0.687	0.017	0.82	0.58	0.007	0.03	0.03	0.11	0.82	-0.23	-0.28	-0.37	0.58	6529	-8.2
8	O127	D	0.687	0.017	0.83	0.61	0.008	0.03	0.03	0.11	0.83	-0.24	-0.29	-0.38	0.61	6532	-8.4
9	O127	D	0.687	0.017	0.82	0.59	0.007	0.03	0.03	0.12	0.82	-0.23	-0.27	-0.39	0.59	6535	-8.5
10	O127	D	0.687	0.017	0.80	0.61	0.008	0.03	0.03	0.13	0.80	-0.26	-0.26	-0.38	0.61	6521	-5.7
11	O127	D	0.687	0.017	0.80	0.61	0.010	0.03	0.03	0.13	0.80	-0.24	-0.24	-0.39	0.61	6488	-6.9
12	O127	D	0.687	0.017	0.82	0.59	0.007	0.03	0.03	0.12	0.82	-0.22	-0.26	-0.39	0.59	6528	-8.3
13	O127	D	0.687	0.017	0.82	0.61	0.007	0.03	0.03	0.12	0.82	-0.25	-0.27	-0.39	0.61	6521	-8.2
14	O127	D	0.687	0.016	0.82	0.59	0.009	0.03	0.03	0.12	0.82	-0.21	-0.24	-0.40	0.59	6496	-9.0
15	O127	D	0.687	0.017	0.81	0.62	0.010	0.03	0.03	0.12	0.81	-0.22	-0.27	-0.39	0.62	6489	-8.8
16	O127	D	0.687	0.017	0.81	0.60	0.009	0.03	0.03	0.12	0.81	-0.25	-0.26	-0.39	0.60	6496	-8.6
17	O127	D	0.687	0.017	0.81	0.61	0.009	0.03	0.03	0.13	0.81	-0.25	-0.25	-0.39	0.61	6513	-4.1
18	O127	D	0.687	0.017	0.82	0.62	0.007	0.03	0.03	0.12	0.82	-0.25	-0.26	-0.42	0.62	6507	-4.7
19	O127	D	0.687	0.017	0.82	0.60	0.008	0.03	0.03	0.11	0.82	-0.23	-0.28	-0.37	0.60	6541	-4.9
20	O127	D	0.687	0.017	0.82	0.60	0.007	0.03	0.03	0.12	0.82	-0.23	-0.26	-0.40	0.60	6497	-5.1
1	O128	B	-2.333	0.048	0.90	0.57	0.012	0.03	0.90	0.03	0.03	-0.26	0.57	-0.28	-0.26	6890	-6.4
2	O128	B	-2.333	0.054	0.92	0.53	0.008	0.02	0.92	0.02	0.02	-0.28	0.53	-0.25	-0.25	6546	-6.4
3	O128	B	-2.333	0.052	0.93	0.53	0.009	0.02	0.93	0.02	0.02	-0.26	0.53	-0.24	-0.26	6555	-7.4
4	O128	B	-2.333	0.052	0.93	0.50	0.006	0.02	0.93	0.02	0.02	-0.28	0.50	-0.25	-0.22	6526	-7.3
5	O128	B	-2.333	0.052	0.93	0.51	0.008	0.02	0.93	0.02	0.02	-0.27	0.51	-0.24	-0.22	6520	-6.6
6	O128	B	-2.333	0.054	0.93	0.47	0.006	0.02	0.93	0.02	0.02	-0.25	0.47	-0.22	-0.23	6532	-5.3
7	O128	B	-2.333	0.052	0.93	0.50	0.007	0.02	0.93	0.02	0.02	-0.26	0.50	-0.23	-0.25	6529	-8.0
8	O128	B	-2.333	0.054	0.93	0.52	0.008	0.02	0.93	0.02	0.02	-0.25	0.52	-0.25	-0.25	6532	-4.6
9	O128	B	-2.333	0.053	0.93	0.50	0.006	0.02	0.93	0.02	0.02	-0.24	0.50	-0.25	-0.25	6535	-7.9
10	O128	B	-2.333	0.053	0.93	0.52	0.008	0.02	0.93	0.02	0.02	-0.28	0.52	-0.24	-0.24	6521	-6.3
11	O128	B	-2.333	0.053	0.93	0.51	0.009	0.02	0.93	0.02	0.02	-0.26	0.51	-0.23	-0.23	6488	-6.1
12	O128	B	-2.333	0.052	0.93	0.49	0.007	0.02	0.93	0.02	0.02	-0.25	0.49	-0.23	-0.25	6528	-6.9
13	O128	B	-2.333	0.054	0.93	0.48	0.007	0.02	0.93	0.02	0.03	-0.21	0.48	-0.22	-0.25	6521	-5.3
14	O128	B	-2.333	0.053	0.93	0.51	0.008	0.02	0.93	0.02	0.02	-0.26	0.51	-0.24	-0.22	6496	-7.3
15	O128	B	-2.333	0.053	0.92	0.54	0.009	0.02	0.92	0.02	0.02	-0.27	0.54	-0.26	-0.24	6489	-7.4
16	O128	B	-2.333	0.052	0.93	0.48	0.008	0.02	0.93	0.02	0.02	-0.22	0.48	-0.24	-0.23	6496	-6.9
17	O128	B	-2.333	0.057	0.92	0.51	0.008	0.02	0.92	0.02	0.02	-0.25	0.51	-0.23	-0.25	6513	-3.4
18	O128	B	-2.333	0.057	0.93	0.52	0.007	0.02	0.93	0.02	0.02	-0.27	0.52	-0.24	-0.27	6507	-4.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O128	B	-2.333	0.056	0.93	0.50	0.007	0.02	0.93	0.02	0.02	-0.26	0.50	-0.24	-0.24	6541	-4.3
20	O128	B	-2.333	0.056	0.93	0.52	0.006	0.02	0.93	0.02	0.02	-0.26	0.52	-0.27	-0.24	6497	-4.6
1	O129	D	-1.325	0.036	0.83	0.54	0.013	0.05	0.08	0.04	0.83	-0.28	-0.23	-0.26	0.54	6890	-5.1
2	O129	D	-1.325	0.039	0.85	0.52	0.008	0.04	0.06	0.03	0.85	-0.27	-0.25	-0.23	0.52	6546	-3.8
3	O129	D	-1.325	0.038	0.84	0.52	0.009	0.04	0.07	0.04	0.84	-0.22	-0.24	-0.30	0.52	6555	-2.5
4	O129	D	-1.325	0.038	0.86	0.51	0.006	0.04	0.07	0.03	0.86	-0.24	-0.26	-0.27	0.51	6526	-5.8
5	O129	D	-1.325	0.038	0.84	0.51	0.008	0.04	0.08	0.03	0.84	-0.26	-0.26	-0.23	0.51	6520	-4.0
6	O129	D	-1.325	0.039	0.85	0.50	0.006	0.04	0.07	0.03	0.85	-0.26	-0.25	-0.25	0.50	6532	-3.3
7	O129	D	-1.325	0.038	0.85	0.49	0.007	0.03	0.08	0.03	0.85	-0.24	-0.27	-0.23	0.49	6529	-4.3
8	O129	D	-1.325	0.039	0.85	0.48	0.008	0.04	0.07	0.04	0.85	-0.24	-0.23	-0.23	0.48	6532	0.1
9	O129	D	-1.325	0.038	0.86	0.52	0.007	0.04	0.06	0.03	0.86	-0.28	-0.24	-0.26	0.52	6535	-5.9
10	O129	D	-1.325	0.039	0.85	0.51	0.008	0.04	0.07	0.04	0.85	-0.26	-0.22	-0.28	0.51	6521	-0.8
11	O129	D	-1.325	0.038	0.85	0.50	0.009	0.04	0.07	0.03	0.85	-0.25	-0.22	-0.26	0.50	6488	-3.0
12	O129	D	-1.325	0.038	0.85	0.48	0.007	0.04	0.07	0.03	0.85	-0.23	-0.25	-0.23	0.48	6528	-3.6
13	O129	D	-1.325	0.039	0.85	0.49	0.008	0.04	0.08	0.03	0.85	-0.24	-0.25	-0.23	0.49	6521	-2.1
14	O129	D	-1.325	0.038	0.86	0.48	0.008	0.04	0.07	0.03	0.86	-0.24	-0.22	-0.23	0.48	6496	-5.4
15	O129	D	-1.325	0.038	0.85	0.50	0.009	0.03	0.07	0.03	0.85	-0.23	-0.23	-0.26	0.50	6489	-3.8
16	O129	D	-1.325	0.038	0.85	0.49	0.009	0.04	0.07	0.03	0.85	-0.26	-0.24	-0.22	0.49	6496	-3.7
17	O129	D	-1.325	0.041	0.85	0.50	0.009	0.03	0.08	0.03	0.85	-0.24	-0.25	-0.23	0.50	6513	-0.4
18	O129	D	-1.325	0.041	0.86	0.50	0.007	0.04	0.07	0.03	0.86	-0.24	-0.26	-0.24	0.50	6507	-0.5
19	O129	D	-1.325	0.040	0.85	0.50	0.008	0.04	0.07	0.04	0.85	-0.26	-0.22	-0.26	0.50	6541	-0.2
20	O129	D	-1.325	0.040	0.85	0.50	0.007	0.04	0.08	0.03	0.85	-0.25	-0.25	-0.24	0.50	6497	1.5
1	O130	D	-2.707	0.055	0.92	0.56	0.013	0.03	0.02	0.02	0.92	-0.29	-0.25	-0.23	0.56	6890	-3.6
2	O130	D	-2.707	0.062	0.94	0.52	0.008	0.02	0.02	0.01	0.94	-0.28	-0.26	-0.20	0.52	6546	-4.0
3	O130	D	-2.707	0.060	0.95	0.51	0.010	0.02	0.01	0.01	0.95	-0.29	-0.23	-0.20	0.51	6555	-5.5
4	O130	D	-2.707	0.060	0.94	0.51	0.006	0.02	0.02	0.01	0.94	-0.30	-0.25	-0.23	0.51	6526	-5.5
5	O130	D	-2.707	0.060	0.95	0.50	0.008	0.02	0.01	0.01	0.95	-0.27	-0.22	-0.22	0.50	6520	-5.9
6	O130	D	-2.707	0.062	0.94	0.50	0.007	0.02	0.02	0.01	0.94	-0.29	-0.24	-0.21	0.50	6532	-4.0
7	O130	D	-2.707	0.060	0.95	0.49	0.007	0.02	0.01	0.01	0.95	-0.27	-0.21	-0.25	0.49	6529	-7.6
8	O130	D	-2.707	0.062	0.95	0.50	0.008	0.02	0.01	0.02	0.95	-0.27	-0.19	-0.25	0.50	6532	-4.8
9	O130	D	-2.707	0.060	0.94	0.52	0.007	0.02	0.02	0.02	0.94	-0.28	-0.25	-0.24	0.52	6535	-5.5
10	O130	D	-2.707	0.060	0.94	0.54	0.008	0.02	0.02	0.02	0.94	-0.27	-0.27	-0.26	0.54	6521	-5.5
11	O130	D	-2.707	0.061	0.95	0.50	0.009	0.02	0.01	0.01	0.95	-0.26	-0.22	-0.22	0.50	6488	-7.3
12	O130	D	-2.707	0.060	0.95	0.49	0.007	0.02	0.01	0.01	0.95	-0.29	-0.22	-0.20	0.49	6528	-6.7
13	O130	D	-2.707	0.062	0.95	0.48	0.008	0.02	0.02	0.01	0.95	-0.26	-0.23	-0.19	0.48	6521	-6.6
14	O130	D	-2.707	0.061	0.95	0.50	0.009	0.02	0.01	0.01	0.95	-0.27	-0.22	-0.21	0.50	6496	-6.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O130	D	-2.707	0.061	0.94	0.53	0.009	0.02	0.02	0.01	0.94	-0.28	-0.24	-0.21	0.53	6489	-5.9
16	O130	D	-2.707	0.059	0.95	0.50	0.008	0.02	0.01	0.01	0.95	-0.26	-0.21	-0.25	0.50	6496	-6.1
17	O130	D	-2.707	0.066	0.94	0.52	0.009	0.02	0.02	0.01	0.94	-0.26	-0.26	-0.22	0.52	6513	-3.8
18	O130	D	-2.707	0.066	0.94	0.49	0.007	0.02	0.02	0.02	0.94	-0.27	-0.21	-0.24	0.49	6507	-1.3
19	O130	D	-2.707	0.065	0.94	0.51	0.008	0.02	0.02	0.01	0.94	-0.29	-0.25	-0.21	0.51	6541	-4.0
20	O130	D	-2.707	0.064	0.95	0.51	0.007	0.02	0.01	0.01	0.95	-0.28	-0.21	-0.25	0.51	6497	-2.6
1	O131	B	-0.382	0.030	0.72	0.43	0.014	0.06	0.72	0.15	0.05	-0.25	0.43	-0.17	-0.15	6890	1.4
2	O131	B	-0.382	0.031	0.73	0.40	0.009	0.06	0.73	0.15	0.06	-0.23	0.40	-0.18	-0.15	6546	3.5
3	O131	B	-0.382	0.031	0.72	0.44	0.010	0.07	0.72	0.16	0.05	-0.28	0.44	-0.21	-0.11	6555	1.3
4	O131	B	-0.382	0.031	0.73	0.41	0.007	0.06	0.73	0.15	0.05	-0.24	0.41	-0.21	-0.14	6526	0.3
5	O131	B	-0.382	0.031	0.74	0.40	0.009	0.05	0.74	0.15	0.05	-0.23	0.40	-0.18	-0.16	6520	1.6
6	O131	B	-0.382	0.031	0.74	0.43	0.007	0.05	0.74	0.15	0.05	-0.25	0.43	-0.22	-0.17	6532	1.0
7	O131	B	-0.382	0.031	0.74	0.42	0.007	0.06	0.74	0.15	0.05	-0.24	0.42	-0.21	-0.15	6529	0.1
8	O131	B	-0.382	0.032	0.73	0.41	0.009	0.06	0.73	0.15	0.06	-0.26	0.41	-0.18	-0.13	6532	3.9
9	O131	B	-0.382	0.031	0.73	0.43	0.008	0.06	0.73	0.14	0.06	-0.26	0.43	-0.19	-0.18	6535	0.5
10	O131	B	-0.382	0.032	0.73	0.40	0.009	0.06	0.73	0.15	0.06	-0.27	0.40	-0.15	-0.16	6521	5.9
11	O131	B	-0.382	0.031	0.73	0.41	0.010	0.06	0.73	0.15	0.05	-0.24	0.41	-0.18	-0.15	6488	0.8
12	O131	B	-0.382	0.031	0.73	0.42	0.008	0.06	0.73	0.15	0.05	-0.26	0.42	-0.21	-0.14	6528	1.1
13	O131	B	-0.382	0.031	0.72	0.42	0.009	0.06	0.72	0.16	0.06	-0.27	0.42	-0.19	-0.14	6521	3.5
14	O131	B	-0.382	0.031	0.73	0.44	0.009	0.07	0.73	0.15	0.05	-0.27	0.44	-0.20	-0.14	6496	-1.7
15	O131	B	-0.382	0.031	0.73	0.43	0.009	0.05	0.73	0.15	0.06	-0.25	0.43	-0.19	-0.16	6489	1.3
16	O131	B	-0.382	0.031	0.73	0.42	0.009	0.06	0.73	0.15	0.05	-0.25	0.42	-0.22	-0.12	6496	-1.1
17	O131	B	-0.382	0.033	0.73	0.42	0.010	0.06	0.73	0.15	0.05	-0.25	0.42	-0.19	-0.14	6513	6.5
18	O131	B	-0.382	0.033	0.73	0.41	0.007	0.06	0.73	0.15	0.06	-0.24	0.41	-0.19	-0.16	6507	7.6
19	O131	B	-0.382	0.032	0.72	0.42	0.008	0.06	0.72	0.16	0.05	-0.24	0.42	-0.20	-0.18	6541	5.7
20	O131	B	-0.382	0.032	0.74	0.40	0.008	0.06	0.74	0.14	0.06	-0.25	0.40	-0.20	-0.13	6497	5.6
1	O132	D	0.175	0.028	0.64	0.42	0.014	0.20	0.05	0.11	0.64	-0.17	-0.24	-0.16	0.42	6890	2.3
2	O132	D	0.175	0.029	0.64	0.45	0.009	0.21	0.04	0.10	0.64	-0.22	-0.24	-0.18	0.45	6546	0.7
3	O132	D	0.175	0.029	0.63	0.41	0.010	0.22	0.04	0.11	0.63	-0.16	-0.25	-0.19	0.41	6555	3.6
4	O132	D	0.175	0.029	0.65	0.42	0.008	0.20	0.04	0.10	0.65	-0.20	-0.23	-0.18	0.42	6526	0.4
5	O132	D	0.175	0.029	0.65	0.42	0.009	0.21	0.04	0.10	0.65	-0.19	-0.21	-0.19	0.42	6520	1.0
6	O132	D	0.175	0.029	0.65	0.43	0.009	0.20	0.04	0.10	0.65	-0.21	-0.23	-0.19	0.43	6532	1.3
7	O132	D	0.175	0.029	0.64	0.43	0.008	0.21	0.04	0.10	0.64	-0.21	-0.23	-0.20	0.43	6529	-0.2
8	O132	D	0.175	0.029	0.66	0.41	0.010	0.20	0.04	0.10	0.66	-0.19	-0.24	-0.16	0.41	6532	4.0
9	O132	D	0.175	0.029	0.65	0.43	0.008	0.20	0.05	0.10	0.65	-0.19	-0.24	-0.19	0.43	6535	0.1
10	O132	D	0.175	0.029	0.65	0.43	0.010	0.21	0.04	0.10	0.65	-0.20	-0.24	-0.18	0.43	6521	2.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O132	D	0.175	0.029	0.64	0.42	0.010	0.21	0.04	0.11	0.64	-0.18	-0.22	-0.19	0.42	6488	0.6
12	O132	D	0.175	0.028	0.65	0.44	0.008	0.20	0.04	0.11	0.65	-0.20	-0.25	-0.20	0.44	6528	-2.2
13	O132	D	0.175	0.029	0.65	0.43	0.009	0.20	0.04	0.10	0.65	-0.20	-0.24	-0.18	0.43	6521	0.8
14	O132	D	0.175	0.028	0.65	0.42	0.009	0.20	0.04	0.10	0.65	-0.20	-0.21	-0.17	0.42	6496	-2.1
15	O132	D	0.175	0.029	0.66	0.44	0.009	0.20	0.04	0.10	0.66	-0.18	-0.23	-0.21	0.44	6489	-0.7
16	O132	D	0.175	0.028	0.64	0.43	0.009	0.21	0.04	0.10	0.64	-0.20	-0.26	-0.16	0.43	6496	0.3
17	O132	D	0.175	0.030	0.64	0.43	0.011	0.21	0.04	0.11	0.64	-0.20	-0.22	-0.19	0.43	6513	5.7
18	O132	D	0.175	0.030	0.65	0.42	0.007	0.20	0.04	0.10	0.65	-0.19	-0.24	-0.19	0.42	6507	4.7
19	O132	D	0.175	0.030	0.65	0.41	0.009	0.20	0.04	0.10	0.65	-0.19	-0.23	-0.17	0.41	6541	4.9
20	O132	D	0.175	0.030	0.66	0.41	0.007	0.20	0.04	0.10	0.66	-0.19	-0.23	-0.18	0.41	6497	3.4

Appendix V:

**2005 Common Grade 5 Multiple Choice Statistics for
Mathematics**

2005 Common Grade 5 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O001	A	1.086	0.026	0.55	0.49	0.001	0.55	0.24	0.04	0.17	0.49	-0.47	-0.13	-0.04	7392	-3.6
2	O001	A	1.086	0.027	0.56	0.50	0.001	0.56	0.22	0.05	0.17	0.50	-0.46	-0.11	-0.07	6809	-2.9
3	O001	A	1.086	0.027	0.55	0.48	0.001	0.55	0.22	0.05	0.18	0.48	-0.46	-0.12	-0.05	6819	-3.6
4	O001	A	1.086	0.027	0.56	0.49	0.001	0.56	0.23	0.04	0.17	0.49	-0.46	-0.13	-0.04	6794	-3.2
5	O001	A	1.086	0.027	0.56	0.49	0.002	0.56	0.22	0.05	0.18	0.49	-0.45	-0.14	-0.06	6775	-4.8
6	O001	A	1.086	0.027	0.56	0.48	0.000	0.56	0.23	0.05	0.17	0.48	-0.45	-0.12	-0.06	6795	-4.3
7	O001	A	1.086	0.027	0.55	0.49	0.001	0.55	0.22	0.05	0.18	0.49	-0.44	-0.13	-0.07	6791	-4.2
8	O001	A	1.086	0.027	0.56	0.47	0.001	0.56	0.22	0.05	0.18	0.47	-0.43	-0.12	-0.06	6820	-2.1
9	O001	A	1.086	0.027	0.57	0.48	0.001	0.57	0.21	0.04	0.18	0.48	-0.45	-0.15	-0.06	6803	-4.9
10	O001	A	1.086	0.027	0.57	0.49	0.001	0.57	0.22	0.05	0.17	0.49	-0.45	-0.15	-0.06	6802	-6.0
11	O001	A	1.086	0.027	0.55	0.48	0.001	0.55	0.23	0.04	0.18	0.48	-0.45	-0.14	-0.05	6795	-2.7
12	O001	A	1.086	0.027	0.56	0.48	0.001	0.56	0.22	0.04	0.18	0.48	-0.46	-0.12	-0.04	6792	-3.0
13	O001	A	1.086	0.027	0.56	0.49	0.002	0.56	0.22	0.04	0.17	0.49	-0.44	-0.16	-0.06	6782	-6.5
14	O001	A	1.086	0.027	0.55	0.49	0.001	0.55	0.22	0.05	0.18	0.49	-0.45	-0.13	-0.07	6784	-5.7
15	O001	A	1.086	0.027	0.56	0.49	0.001	0.56	0.22	0.04	0.18	0.49	-0.46	-0.13	-0.06	6754	-3.7
16	O001	A	1.086	0.027	0.57	0.48	0.001	0.57	0.21	0.05	0.18	0.48	-0.44	-0.12	-0.08	6779	-3.7
17	O001	A	1.086	0.027	0.56	0.49	0.002	0.56	0.22	0.04	0.18	0.49	-0.45	-0.14	-0.06	6779	-4.2
18	O001	A	1.086	0.027	0.56	0.48	0.001	0.56	0.22	0.04	0.18	0.48	-0.45	-0.14	-0.07	6753	-3.4
19	O001	A	1.086	0.027	0.57	0.47	0.002	0.57	0.21	0.04	0.18	0.47	-0.44	-0.13	-0.06	6734	-2.0
20	O001	A	1.086	0.028	0.57	0.48	0.001	0.57	0.22	0.04	0.17	0.48	-0.45	-0.14	-0.05	6725	-1.3
1	O002	B	-0.576	0.033	0.79	0.54	0.001	0.04	0.79	0.10	0.06	-0.27	0.54	-0.33	-0.26	7392	-4.0
2	O002	B	-0.576	0.036	0.81	0.52	0.002	0.04	0.81	0.09	0.06	-0.27	0.52	-0.31	-0.25	6809	-2.7
3	O002	B	-0.576	0.035	0.81	0.52	0.001	0.04	0.81	0.10	0.06	-0.24	0.52	-0.33	-0.25	6819	-4.8
4	O002	B	-0.576	0.035	0.81	0.52	0.002	0.04	0.81	0.09	0.06	-0.26	0.52	-0.31	-0.25	6794	-5.1
5	O002	B	-0.576	0.035	0.81	0.52	0.002	0.04	0.81	0.09	0.06	-0.26	0.52	-0.31	-0.26	6775	-5.7
6	O002	B	-0.576	0.035	0.81	0.51	0.001	0.04	0.81	0.09	0.06	-0.25	0.51	-0.31	-0.25	6795	-4.9
7	O002	B	-0.576	0.035	0.82	0.51	0.001	0.04	0.82	0.09	0.06	-0.24	0.51	-0.33	-0.23	6791	-5.3
8	O002	B	-0.576	0.036	0.82	0.50	0.002	0.04	0.82	0.08	0.06	-0.26	0.50	-0.31	-0.23	6820	-2.0
9	O002	B	-0.576	0.035	0.82	0.50	0.001	0.04	0.82	0.09	0.05	-0.26	0.50	-0.31	-0.24	6803	-6.0
10	O002	B	-0.576	0.036	0.81	0.53	0.001	0.04	0.81	0.09	0.06	-0.25	0.53	-0.33	-0.26	6802	-3.8
11	O002	B	-0.576	0.036	0.81	0.53	0.001	0.04	0.81	0.09	0.06	-0.27	0.53	-0.31	-0.26	6795	-2.0
12	O002	B	-0.576	0.036	0.81	0.51	0.001	0.04	0.81	0.09	0.06	-0.24	0.51	-0.31	-0.26	6792	-2.0
13	O002	B	-0.576	0.035	0.82	0.51	0.002	0.04	0.82	0.09	0.05	-0.25	0.51	-0.31	-0.25	6782	-4.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
14	O002	B	-0.576	0.035	0.82	0.52	0.001	0.04	0.82	0.09	0.06	-0.27	0.52	-0.31	-0.25	6784	-6.6
15	O002	B	-0.576	0.035	0.82	0.50	0.001	0.04	0.82	0.08	0.06	-0.23	0.50	-0.30	-0.26	6754	-4.4
16	O002	B	-0.576	0.036	0.82	0.52	0.002	0.03	0.82	0.09	0.06	-0.25	0.52	-0.33	-0.24	6779	-4.9
17	O002	B	-0.576	0.035	0.82	0.53	0.003	0.04	0.82	0.09	0.06	-0.26	0.53	-0.33	-0.25	6779	-6.2
18	O002	B	-0.576	0.036	0.82	0.53	0.001	0.04	0.82	0.09	0.06	-0.25	0.53	-0.34	-0.25	6753	-3.7
19	O002	B	-0.576	0.036	0.82	0.52	0.001	0.04	0.82	0.09	0.06	-0.25	0.52	-0.33	-0.25	6734	-4.2
20	O002	B	-0.576	0.036	0.82	0.52	0.001	0.04	0.82	0.09	0.06	-0.24	0.52	-0.33	-0.26	6725	-1.7
1	O003	C	0.107	0.029	0.70	0.46	0.002	0.11	0.13	0.70	0.05	-0.25	-0.28	0.46	-0.15	7392	1.9
2	O003	C	0.107	0.031	0.72	0.47	0.002	0.10	0.13	0.72	0.05	-0.28	-0.25	0.47	-0.17	6809	1.3
3	O003	C	0.107	0.030	0.72	0.47	0.002	0.11	0.13	0.72	0.04	-0.29	-0.28	0.47	-0.12	6819	-0.9
4	O003	C	0.107	0.030	0.72	0.42	0.001	0.11	0.13	0.72	0.04	-0.25	-0.23	0.42	-0.15	6794	4.1
5	O003	C	0.107	0.030	0.72	0.45	0.002	0.11	0.13	0.72	0.04	-0.26	-0.27	0.45	-0.15	6775	-0.0
6	O003	C	0.107	0.030	0.71	0.46	0.001	0.11	0.13	0.71	0.05	-0.28	-0.27	0.46	-0.14	6795	0.1
7	O003	C	0.107	0.030	0.73	0.45	0.002	0.10	0.12	0.73	0.04	-0.27	-0.25	0.45	-0.16	6791	-1.3
8	O003	C	0.107	0.030	0.74	0.44	0.002	0.10	0.12	0.74	0.04	-0.26	-0.25	0.44	-0.15	6820	0.9
9	O003	C	0.107	0.030	0.73	0.44	0.001	0.10	0.13	0.73	0.04	-0.25	-0.25	0.44	-0.17	6803	-1.6
10	O003	C	0.107	0.030	0.73	0.45	0.001	0.10	0.13	0.73	0.04	-0.24	-0.28	0.45	-0.14	6802	-0.3
11	O003	C	0.107	0.031	0.73	0.44	0.002	0.10	0.13	0.73	0.04	-0.27	-0.24	0.44	-0.16	6795	1.4
12	O003	C	0.107	0.031	0.73	0.46	0.001	0.11	0.13	0.73	0.04	-0.27	-0.26	0.46	-0.16	6792	2.1
13	O003	C	0.107	0.030	0.73	0.46	0.003	0.10	0.13	0.73	0.04	-0.28	-0.26	0.46	-0.13	6782	-1.8
14	O003	C	0.107	0.030	0.72	0.45	0.002	0.11	0.12	0.72	0.04	-0.28	-0.25	0.45	-0.15	6784	-1.4
15	O003	C	0.107	0.030	0.74	0.44	0.002	0.10	0.13	0.74	0.04	-0.26	-0.26	0.44	-0.15	6754	-0.1
16	O003	C	0.107	0.031	0.73	0.45	0.002	0.11	0.12	0.73	0.05	-0.27	-0.26	0.45	-0.14	6779	1.7
17	O003	C	0.107	0.030	0.72	0.44	0.002	0.10	0.13	0.72	0.05	-0.25	-0.25	0.44	-0.15	6779	2.2
18	O003	C	0.107	0.031	0.74	0.46	0.001	0.10	0.12	0.74	0.04	-0.26	-0.26	0.46	-0.17	6753	0.0
19	O003	C	0.107	0.031	0.73	0.46	0.001	0.10	0.13	0.73	0.04	-0.26	-0.26	0.46	-0.16	6734	1.1
20	O003	C	0.107	0.031	0.73	0.45	0.001	0.10	0.13	0.73	0.04	-0.28	-0.24	0.45	-0.17	6725	3.7
1	O004	B	-1.464	0.043	0.90	0.32	0.001	0.05	0.90	0.04	0.02	-0.20	0.32	-0.16	-0.16	7392	5.4
2	O004	B	-1.464	0.046	0.91	0.33	0.002	0.04	0.91	0.03	0.02	-0.22	0.33	-0.15	-0.16	6809	5.1
3	O004	B	-1.464	0.046	0.91	0.31	0.001	0.04	0.91	0.03	0.02	-0.19	0.31	-0.16	-0.16	6819	3.6
4	O004	B	-1.464	0.046	0.91	0.30	0.001	0.04	0.91	0.03	0.02	-0.19	0.30	-0.15	-0.14	6794	4.3
5	O004	B	-1.464	0.045	0.91	0.31	0.001	0.04	0.91	0.03	0.02	-0.19	0.31	-0.15	-0.16	6775	1.5
6	O004	B	-1.464	0.045	0.91	0.29	0.001	0.04	0.91	0.03	0.01	-0.19	0.29	-0.15	-0.13	6795	4.2
7	O004	B	-1.464	0.046	0.91	0.29	0.002	0.04	0.91	0.04	0.02	-0.16	0.29	-0.15	-0.15	6791	3.8
8	O004	B	-1.464	0.047	0.91	0.31	0.001	0.04	0.91	0.03	0.02	-0.20	0.31	-0.14	-0.16	6820	3.7
9	O004	B	-1.464	0.046	0.91	0.28	0.001	0.04	0.91	0.03	0.01	-0.19	0.28	-0.13	-0.13	6803	2.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
10	O004	B	-1.464	0.047	0.91	0.31	0.001	0.04	0.91	0.03	0.02	-0.17	0.31	-0.18	-0.15	6802	4.7
11	O004	B	-1.464	0.047	0.91	0.30	0.001	0.04	0.91	0.03	0.02	-0.18	0.30	-0.16	-0.15	6795	4.4
12	O004	B	-1.464	0.047	0.91	0.31	0.001	0.04	0.91	0.03	0.02	-0.19	0.31	-0.16	-0.15	6792	3.2
13	O004	B	-1.464	0.046	0.91	0.30	0.002	0.04	0.91	0.03	0.02	-0.19	0.30	-0.13	-0.14	6782	3.4
14	O004	B	-1.464	0.046	0.90	0.32	0.001	0.04	0.90	0.04	0.02	-0.21	0.32	-0.16	-0.15	6784	2.5
15	O004	B	-1.464	0.046	0.91	0.28	0.001	0.04	0.91	0.03	0.02	-0.17	0.28	-0.14	-0.15	6754	5.5
16	O004	B	-1.464	0.048	0.91	0.30	0.001	0.04	0.91	0.03	0.01	-0.17	0.30	-0.17	-0.16	6779	5.0
17	O004	B	-1.464	0.046	0.91	0.31	0.002	0.04	0.91	0.03	0.02	-0.20	0.31	-0.14	-0.16	6779	2.3
18	O004	B	-1.464	0.047	0.92	0.31	0.001	0.04	0.92	0.03	0.02	-0.20	0.31	-0.15	-0.17	6753	2.2
19	O004	B	-1.464	0.048	0.91	0.32	0.001	0.04	0.91	0.03	0.02	-0.21	0.32	-0.17	-0.13	6734	3.3
20	O004	B	-1.464	0.047	0.91	0.30	0.001	0.04	0.91	0.03	0.02	-0.19	0.30	-0.16	-0.13	6725	5.1
1	O006	D	-0.884	0.036	0.83	0.56	0.001	0.05	0.05	0.07	0.83	-0.35	-0.29	-0.26	0.56	7392	-5.5
2	O006	D	-0.884	0.039	0.84	0.56	0.002	0.05	0.05	0.07	0.84	-0.35	-0.28	-0.27	0.56	6809	-4.9
3	O006	D	-0.884	0.038	0.84	0.54	0.002	0.05	0.05	0.07	0.84	-0.34	-0.29	-0.25	0.54	6819	-5.1
4	O006	D	-0.884	0.038	0.85	0.53	0.002	0.04	0.05	0.06	0.85	-0.32	-0.28	-0.26	0.53	6794	-5.5
5	O006	D	-0.884	0.038	0.85	0.54	0.002	0.04	0.05	0.06	0.85	-0.34	-0.29	-0.24	0.54	6775	-6.7
6	O006	D	-0.884	0.038	0.84	0.54	0.002	0.04	0.05	0.06	0.84	-0.32	-0.30	-0.27	0.54	6795	-6.8
7	O006	D	-0.884	0.038	0.85	0.53	0.002	0.04	0.05	0.07	0.85	-0.32	-0.28	-0.26	0.53	6791	-5.4
8	O006	D	-0.884	0.039	0.86	0.54	0.002	0.04	0.05	0.06	0.86	-0.32	-0.30	-0.25	0.54	6820	-6.9
9	O006	D	-0.884	0.038	0.87	0.50	0.001	0.04	0.04	0.06	0.87	-0.31	-0.29	-0.23	0.50	6803	-7.9
10	O006	D	-0.884	0.039	0.85	0.54	0.002	0.04	0.05	0.06	0.85	-0.32	-0.30	-0.26	0.54	6802	-6.4
11	O006	D	-0.884	0.039	0.85	0.53	0.002	0.04	0.05	0.06	0.85	-0.32	-0.30	-0.25	0.53	6795	-4.7
12	O006	D	-0.884	0.039	0.86	0.56	0.002	0.04	0.04	0.06	0.86	-0.35	-0.30	-0.27	0.56	6792	-6.7
13	O006	D	-0.884	0.038	0.85	0.55	0.002	0.04	0.05	0.06	0.85	-0.34	-0.30	-0.26	0.55	6782	-7.6
14	O006	D	-0.884	0.038	0.85	0.54	0.001	0.04	0.05	0.06	0.85	-0.33	-0.29	-0.26	0.54	6784	-7.9
15	O006	D	-0.884	0.039	0.86	0.54	0.002	0.04	0.04	0.06	0.86	-0.34	-0.28	-0.25	0.54	6754	-7.1
16	O006	D	-0.884	0.039	0.85	0.54	0.002	0.04	0.05	0.06	0.85	-0.33	-0.30	-0.25	0.54	6779	-5.1
17	O006	D	-0.884	0.038	0.85	0.53	0.003	0.04	0.05	0.06	0.85	-0.32	-0.32	-0.23	0.53	6779	-4.3
18	O006	D	-0.884	0.039	0.85	0.55	0.001	0.04	0.04	0.07	0.85	-0.35	-0.30	-0.26	0.55	6753	-4.4
19	O006	D	-0.884	0.039	0.86	0.51	0.002	0.03	0.04	0.06	0.86	-0.30	-0.28	-0.27	0.51	6734	-5.1
20	O006	D	-0.884	0.039	0.85	0.54	0.002	0.04	0.05	0.06	0.85	-0.33	-0.31	-0.24	0.54	6725	-4.3
1	O007	C	0.610	0.027	0.62	0.53	0.002	0.04	0.28	0.62	0.07	-0.25	-0.40	0.53	-0.10	7392	-5.3
2	O007	C	0.610	0.029	0.63	0.53	0.002	0.02	0.28	0.63	0.07	-0.21	-0.45	0.53	-0.08	6809	-3.3
3	O007	C	0.610	0.028	0.64	0.53	0.001	0.02	0.27	0.64	0.06	-0.20	-0.45	0.53	-0.07	6819	-6.9
4	O007	C	0.610	0.028	0.64	0.54	0.001	0.03	0.27	0.64	0.07	-0.22	-0.45	0.54	-0.08	6794	-6.2
5	O007	C	0.610	0.028	0.64	0.54	0.002	0.02	0.26	0.64	0.07	-0.18	-0.47	0.54	-0.09	6775	-9.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	O007	C	0.610	0.028	0.63	0.52	0.001	0.02	0.29	0.63	0.06	-0.19	-0.46	0.52	-0.06	6795	-6.4
7	O007	C	0.610	0.028	0.63	0.52	0.002	0.03	0.27	0.63	0.07	-0.23	-0.45	0.52	-0.05	6791	-5.9
8	O007	C	0.610	0.028	0.64	0.52	0.001	0.03	0.26	0.64	0.07	-0.21	-0.44	0.52	-0.09	6820	-5.4
9	O007	C	0.610	0.028	0.64	0.52	0.001	0.02	0.27	0.64	0.07	-0.19	-0.45	0.52	-0.09	6803	-6.8
10	O007	C	0.610	0.028	0.64	0.51	0.002	0.03	0.27	0.64	0.07	-0.22	-0.42	0.51	-0.07	6802	-4.8
11	O007	C	0.610	0.028	0.63	0.53	0.002	0.03	0.27	0.63	0.07	-0.20	-0.45	0.53	-0.09	6795	-5.7
12	O007	C	0.610	0.028	0.64	0.51	0.001	0.02	0.27	0.64	0.07	-0.18	-0.45	0.51	-0.06	6792	-3.6
13	O007	C	0.610	0.028	0.64	0.51	0.003	0.02	0.26	0.64	0.07	-0.20	-0.45	0.51	-0.04	6782	-6.5
14	O007	C	0.610	0.028	0.64	0.51	0.002	0.02	0.26	0.64	0.07	-0.22	-0.44	0.51	-0.06	6784	-8.1
15	O007	C	0.610	0.028	0.64	0.52	0.001	0.02	0.27	0.64	0.06	-0.18	-0.46	0.52	-0.05	6754	-5.3
16	O007	C	0.610	0.028	0.64	0.50	0.001	0.02	0.27	0.64	0.07	-0.19	-0.44	0.50	-0.06	6779	-3.1
17	O007	C	0.610	0.028	0.64	0.51	0.002	0.03	0.27	0.64	0.07	-0.19	-0.43	0.51	-0.09	6779	-4.9
18	O007	C	0.610	0.028	0.64	0.53	0.002	0.03	0.27	0.64	0.07	-0.21	-0.44	0.53	-0.08	6753	-5.0
19	O007	C	0.610	0.029	0.64	0.52	0.001	0.02	0.27	0.64	0.07	-0.19	-0.43	0.52	-0.10	6734	-3.9
20	O007	C	0.610	0.029	0.65	0.53	0.002	0.02	0.27	0.65	0.07	-0.19	-0.45	0.53	-0.09	6725	-4.0
1	O008	B	-0.498	0.032	0.79	0.36	0.002	0.05	0.79	0.14	0.01	-0.18	0.36	-0.25	-0.16	7392	7.3
2	O008	B	-0.498	0.035	0.81	0.33	0.003	0.04	0.81	0.14	0.01	-0.12	0.33	-0.24	-0.16	6809	8.1
3	O008	B	-0.498	0.034	0.81	0.33	0.002	0.04	0.81	0.13	0.02	-0.17	0.33	-0.22	-0.15	6819	6.1
4	O008	B	-0.498	0.035	0.81	0.34	0.002	0.04	0.81	0.13	0.01	-0.14	0.34	-0.24	-0.14	6794	4.8
5	O008	B	-0.498	0.034	0.82	0.34	0.003	0.03	0.82	0.13	0.02	-0.13	0.34	-0.25	-0.16	6775	2.1
6	O008	B	-0.498	0.034	0.82	0.31	0.002	0.04	0.82	0.13	0.01	-0.17	0.31	-0.21	-0.12	6795	4.9
7	O008	B	-0.498	0.034	0.80	0.34	0.002	0.05	0.80	0.14	0.01	-0.17	0.34	-0.23	-0.14	6791	4.9
8	O008	B	-0.498	0.035	0.82	0.33	0.002	0.04	0.82	0.12	0.01	-0.13	0.33	-0.23	-0.15	6820	4.4
9	O008	B	-0.498	0.034	0.82	0.29	0.002	0.04	0.82	0.13	0.01	-0.13	0.29	-0.20	-0.15	6803	5.4
10	O008	B	-0.498	0.035	0.81	0.34	0.002	0.05	0.81	0.13	0.01	-0.17	0.34	-0.22	-0.17	6802	5.4
11	O008	B	-0.498	0.035	0.81	0.31	0.003	0.04	0.81	0.13	0.01	-0.12	0.31	-0.23	-0.14	6795	7.0
12	O008	B	-0.498	0.035	0.81	0.36	0.001	0.04	0.81	0.13	0.01	-0.16	0.36	-0.25	-0.16	6792	5.3
13	O008	B	-0.498	0.034	0.81	0.31	0.003	0.05	0.81	0.13	0.01	-0.15	0.31	-0.20	-0.14	6782	5.4
14	O008	B	-0.498	0.034	0.81	0.34	0.002	0.04	0.81	0.13	0.02	-0.16	0.34	-0.23	-0.16	6784	4.0
15	O008	B	-0.498	0.035	0.82	0.33	0.002	0.04	0.82	0.13	0.01	-0.15	0.33	-0.22	-0.16	6754	5.8
16	O008	B	-0.498	0.035	0.82	0.32	0.002	0.04	0.82	0.13	0.01	-0.12	0.32	-0.23	-0.17	6779	6.1
17	O008	B	-0.498	0.034	0.81	0.33	0.002	0.04	0.81	0.14	0.01	-0.14	0.33	-0.23	-0.16	6779	6.7
18	O008	B	-0.498	0.035	0.81	0.32	0.002	0.04	0.81	0.13	0.01	-0.13	0.32	-0.24	-0.13	6753	7.7
19	O008	B	-0.498	0.035	0.81	0.33	0.001	0.04	0.81	0.14	0.01	-0.15	0.33	-0.23	-0.15	6734	8.5
20	O008	B	-0.498	0.036	0.81	0.31	0.002	0.04	0.81	0.13	0.01	-0.15	0.31	-0.21	-0.15	6725	8.0
1	O009	A	0.277	0.028	0.66	0.49	0.002	0.66	0.02	0.03	0.30	0.49	-0.17	-0.19	-0.39	7392	0.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
2	O009	A	0.277	0.030	0.70	0.48	0.002	0.70	0.01	0.03	0.26	0.48	-0.16	-0.24	-0.37	6809	-0.8
3	O009	A	0.277	0.029	0.70	0.47	0.001	0.70	0.01	0.03	0.27	0.47	-0.14	-0.21	-0.37	6819	-1.9
4	O009	A	0.277	0.029	0.70	0.46	0.002	0.70	0.01	0.03	0.27	0.46	-0.16	-0.21	-0.36	6794	-1.1
5	O009	A	0.277	0.029	0.70	0.45	0.002	0.70	0.01	0.03	0.26	0.45	-0.14	-0.20	-0.36	6775	-2.8
6	O009	A	0.277	0.029	0.70	0.47	0.001	0.70	0.01	0.03	0.26	0.47	-0.15	-0.19	-0.38	6795	-4.7
7	O009	A	0.277	0.029	0.70	0.45	0.002	0.70	0.01	0.02	0.26	0.45	-0.12	-0.19	-0.37	6791	-1.6
8	O009	A	0.277	0.030	0.70	0.45	0.002	0.70	0.01	0.02	0.26	0.45	-0.14	-0.20	-0.35	6820	0.8
9	O009	A	0.277	0.029	0.70	0.44	0.001	0.70	0.01	0.03	0.26	0.44	-0.12	-0.18	-0.36	6803	-2.0
10	O009	A	0.277	0.029	0.71	0.45	0.002	0.71	0.01	0.03	0.25	0.45	-0.16	-0.22	-0.35	6802	-3.1
11	O009	A	0.277	0.030	0.69	0.47	0.002	0.69	0.01	0.03	0.27	0.47	-0.14	-0.18	-0.38	6795	-0.5
12	O009	A	0.277	0.030	0.70	0.45	0.002	0.70	0.01	0.02	0.27	0.45	-0.17	-0.20	-0.35	6792	1.1
13	O009	A	0.277	0.029	0.70	0.44	0.002	0.70	0.01	0.02	0.26	0.44	-0.15	-0.18	-0.35	6782	-1.7
14	O009	A	0.277	0.029	0.70	0.43	0.001	0.70	0.01	0.02	0.26	0.43	-0.18	-0.17	-0.34	6784	-2.4
15	O009	A	0.277	0.030	0.71	0.47	0.001	0.71	0.01	0.03	0.25	0.47	-0.11	-0.21	-0.37	6754	-3.0
16	O009	A	0.277	0.030	0.71	0.45	0.001	0.71	0.01	0.02	0.25	0.45	-0.13	-0.20	-0.36	6779	-0.9
17	O009	A	0.277	0.029	0.70	0.45	0.002	0.70	0.01	0.03	0.27	0.45	-0.14	-0.20	-0.35	6779	-0.3
18	O009	A	0.277	0.030	0.70	0.47	0.002	0.70	0.01	0.02	0.26	0.47	-0.13	-0.22	-0.38	6753	-1.8
19	O009	A	0.277	0.030	0.71	0.43	0.001	0.71	0.01	0.02	0.26	0.43	-0.10	-0.19	-0.35	6734	0.8
20	O009	A	0.277	0.030	0.70	0.44	0.002	0.70	0.01	0.03	0.26	0.44	-0.15	-0.21	-0.34	6725	2.8
1	O010	C	-1.225	0.040	0.87	0.45	0.002	0.07	0.04	0.87	0.03	-0.33	-0.19	0.45	-0.19	7392	-1.3
2	O010	C	-1.225	0.043	0.88	0.42	0.003	0.06	0.03	0.88	0.02	-0.29	-0.19	0.42	-0.18	6809	0.8
3	O010	C	-1.225	0.042	0.88	0.39	0.002	0.06	0.03	0.88	0.03	-0.29	-0.15	0.39	-0.18	6819	1.0
4	O010	C	-1.225	0.043	0.89	0.37	0.002	0.05	0.03	0.89	0.02	-0.29	-0.12	0.37	-0.18	6794	0.7
5	O010	C	-1.225	0.042	0.89	0.41	0.002	0.06	0.03	0.89	0.02	-0.29	-0.16	0.41	-0.19	6775	-1.8
6	O010	C	-1.225	0.042	0.89	0.39	0.001	0.05	0.03	0.89	0.03	-0.26	-0.17	0.39	-0.20	6795	-1.4
7	O010	C	-1.225	0.042	0.88	0.40	0.002	0.06	0.03	0.88	0.03	-0.30	-0.11	0.40	-0.21	6791	0.2
8	O010	C	-1.225	0.043	0.89	0.40	0.001	0.06	0.03	0.89	0.03	-0.27	-0.16	0.40	-0.20	6820	0.5
9	O010	C	-1.225	0.042	0.89	0.37	0.001	0.05	0.03	0.89	0.03	-0.27	-0.15	0.37	-0.18	6803	-1.2
10	O010	C	-1.225	0.043	0.89	0.40	0.002	0.05	0.03	0.89	0.03	-0.28	-0.16	0.40	-0.19	6802	-0.6
11	O010	C	-1.225	0.043	0.88	0.41	0.002	0.06	0.03	0.88	0.02	-0.32	-0.14	0.41	-0.19	6795	1.1
12	O010	C	-1.225	0.044	0.89	0.42	0.001	0.06	0.03	0.89	0.02	-0.31	-0.17	0.42	-0.19	6792	0.5
13	O010	C	-1.225	0.042	0.89	0.39	0.002	0.06	0.03	0.89	0.02	-0.27	-0.16	0.39	-0.16	6782	-2.4
14	O010	C	-1.225	0.042	0.89	0.40	0.002	0.05	0.03	0.89	0.02	-0.30	-0.15	0.40	-0.18	6784	-2.5
15	O010	C	-1.225	0.043	0.89	0.41	0.002	0.06	0.03	0.89	0.02	-0.31	-0.15	0.41	-0.19	6754	-0.8
16	O010	C	-1.225	0.044	0.89	0.38	0.001	0.06	0.03	0.89	0.03	-0.28	-0.14	0.38	-0.18	6779	1.5
17	O010	C	-1.225	0.042	0.89	0.41	0.002	0.06	0.03	0.89	0.02	-0.31	-0.15	0.41	-0.18	6779	-1.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
18	O010	C	-1.225	0.044	0.88	0.41	0.002	0.06	0.04	0.88	0.02	-0.31	-0.14	0.41	-0.19	6753	2.0
19	O010	C	-1.225	0.044	0.89	0.38	0.001	0.06	0.03	0.89	0.02	-0.29	-0.14	0.38	-0.16	6734	0.6
20	O010	C	-1.225	0.044	0.88	0.40	0.002	0.06	0.03	0.88	0.03	-0.29	-0.16	0.40	-0.19	6725	1.2
1	O011	D	0.146	0.029	0.70	0.44	0.001	0.09	0.05	0.16	0.70	-0.44	-0.24	-0.06	0.44	7392	5.3
2	O011	D	0.146	0.031	0.72	0.40	0.003	0.07	0.05	0.16	0.72	-0.39	-0.21	-0.08	0.40	6809	9.3
3	O011	D	0.146	0.030	0.72	0.39	0.002	0.07	0.05	0.17	0.72	-0.37	-0.22	-0.09	0.39	6819	4.5
4	O011	D	0.146	0.030	0.73	0.40	0.002	0.07	0.04	0.15	0.73	-0.40	-0.20	-0.08	0.40	6794	3.6
5	O011	D	0.146	0.030	0.71	0.40	0.002	0.07	0.05	0.17	0.71	-0.39	-0.23	-0.09	0.40	6775	5.4
6	O011	D	0.146	0.030	0.71	0.39	0.001	0.07	0.05	0.17	0.71	-0.39	-0.21	-0.08	0.39	6795	4.9
7	O011	D	0.146	0.030	0.72	0.39	0.002	0.07	0.05	0.17	0.72	-0.39	-0.21	-0.07	0.39	6791	4.8
8	O011	D	0.146	0.030	0.73	0.41	0.002	0.07	0.05	0.16	0.73	-0.40	-0.22	-0.09	0.41	6820	3.6
9	O011	D	0.146	0.030	0.73	0.38	0.001	0.07	0.04	0.17	0.73	-0.41	-0.17	-0.09	0.38	6803	3.4
10	O011	D	0.146	0.030	0.72	0.39	0.003	0.07	0.05	0.17	0.72	-0.38	-0.23	-0.08	0.39	6802	5.2
11	O011	D	0.146	0.030	0.72	0.40	0.002	0.07	0.04	0.17	0.72	-0.42	-0.20	-0.09	0.40	6795	5.5
12	O011	D	0.146	0.030	0.73	0.41	0.001	0.07	0.05	0.16	0.73	-0.41	-0.23	-0.08	0.41	6792	4.3
13	O011	D	0.146	0.030	0.73	0.40	0.003	0.06	0.05	0.16	0.73	-0.38	-0.21	-0.09	0.40	6782	3.0
14	O011	D	0.146	0.030	0.72	0.39	0.001	0.07	0.05	0.16	0.72	-0.39	-0.22	-0.08	0.39	6784	3.5
15	O011	D	0.146	0.030	0.73	0.41	0.002	0.07	0.05	0.16	0.73	-0.40	-0.21	-0.09	0.41	6754	3.5
16	O011	D	0.146	0.031	0.72	0.40	0.001	0.07	0.05	0.16	0.72	-0.40	-0.23	-0.07	0.40	6779	7.0
17	O011	D	0.146	0.030	0.72	0.39	0.002	0.07	0.05	0.17	0.72	-0.40	-0.22	-0.06	0.39	6779	6.1
18	O011	D	0.146	0.031	0.73	0.39	0.001	0.06	0.04	0.16	0.73	-0.40	-0.22	-0.08	0.39	6753	6.4
19	O011	D	0.146	0.031	0.72	0.40	0.001	0.07	0.04	0.17	0.72	-0.39	-0.22	-0.09	0.40	6734	8.5
20	O011	D	0.146	0.031	0.73	0.39	0.001	0.07	0.05	0.16	0.73	-0.40	-0.21	-0.09	0.39	6725	7.8
1	O012	D	0.633	0.027	0.62	0.49	0.002	0.11	0.14	0.13	0.62	-0.17	-0.26	-0.26	0.49	7392	-2.7
2	O012	D	0.633	0.029	0.64	0.51	0.004	0.10	0.12	0.13	0.64	-0.19	-0.26	-0.28	0.51	6809	-3.9
3	O012	D	0.633	0.028	0.64	0.52	0.002	0.10	0.13	0.13	0.64	-0.22	-0.26	-0.28	0.52	6819	-6.9
4	O012	D	0.633	0.028	0.64	0.51	0.002	0.11	0.13	0.12	0.64	-0.19	-0.27	-0.27	0.51	6794	-5.3
5	O012	D	0.633	0.028	0.63	0.51	0.003	0.10	0.13	0.13	0.63	-0.19	-0.27	-0.27	0.51	6775	-6.6
6	O012	D	0.633	0.028	0.64	0.50	0.001	0.10	0.13	0.13	0.64	-0.18	-0.28	-0.26	0.50	6795	-6.0
7	O012	D	0.633	0.028	0.63	0.51	0.003	0.11	0.13	0.13	0.63	-0.21	-0.25	-0.27	0.51	6791	-5.5
8	O012	D	0.633	0.028	0.64	0.49	0.002	0.11	0.12	0.13	0.64	-0.18	-0.26	-0.26	0.49	6820	-3.8
9	O012	D	0.633	0.028	0.65	0.49	0.003	0.10	0.12	0.13	0.65	-0.20	-0.26	-0.26	0.49	6803	-6.5
10	O012	D	0.633	0.028	0.64	0.47	0.004	0.11	0.12	0.13	0.64	-0.18	-0.24	-0.26	0.47	6802	-3.5
11	O012	D	0.633	0.028	0.65	0.49	0.003	0.10	0.12	0.13	0.65	-0.18	-0.26	-0.27	0.49	6795	-4.3
12	O012	D	0.633	0.028	0.64	0.49	0.003	0.11	0.12	0.13	0.64	-0.20	-0.24	-0.27	0.49	6792	-4.4
13	O012	D	0.633	0.028	0.65	0.50	0.004	0.10	0.12	0.12	0.65	-0.21	-0.26	-0.25	0.50	6782	-6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
14	O012	D	0.633	0.028	0.64	0.48	0.003	0.10	0.13	0.13	0.64	-0.18	-0.25	-0.26	0.48	6784	-6.2
15	O012	D	0.633	0.028	0.65	0.48	0.003	0.10	0.13	0.12	0.65	-0.19	-0.25	-0.26	0.48	6754	-4.1
16	O012	D	0.633	0.028	0.66	0.49	0.002	0.09	0.12	0.12	0.66	-0.19	-0.26	-0.26	0.49	6779	-4.3
17	O012	D	0.633	0.028	0.64	0.49	0.004	0.11	0.12	0.13	0.64	-0.18	-0.24	-0.28	0.49	6779	-5.1
18	O012	D	0.633	0.028	0.65	0.49	0.003	0.10	0.12	0.13	0.65	-0.17	-0.26	-0.29	0.49	6753	-4.2
19	O012	D	0.633	0.028	0.64	0.50	0.003	0.11	0.12	0.13	0.64	-0.20	-0.26	-0.26	0.50	6734	-2.9
20	O012	D	0.633	0.029	0.65	0.50	0.002	0.10	0.12	0.13	0.65	-0.19	-0.27	-0.26	0.50	6725	-2.1
1	O013	A	0.729	0.027	0.58	0.56	0.002	0.58	0.08	0.21	0.13	0.56	-0.21	-0.26	-0.33	7392	-7.0
2	O013	A	0.729	0.028	0.60	0.56	0.002	0.60	0.08	0.20	0.12	0.56	-0.19	-0.26	-0.35	6809	-5.0
3	O013	A	0.729	0.028	0.61	0.55	0.002	0.61	0.07	0.20	0.12	0.55	-0.17	-0.28	-0.33	6819	-8.6
4	O013	A	0.729	0.028	0.61	0.54	0.002	0.61	0.07	0.20	0.12	0.54	-0.17	-0.25	-0.35	6794	-7.3
5	O013	A	0.729	0.028	0.61	0.55	0.003	0.61	0.07	0.19	0.12	0.55	-0.16	-0.27	-0.34	6775	-8.9
6	O013	A	0.729	0.028	0.61	0.55	0.002	0.61	0.07	0.20	0.12	0.55	-0.21	-0.26	-0.33	6795	-9.9
7	O013	A	0.729	0.028	0.61	0.54	0.002	0.61	0.08	0.19	0.12	0.54	-0.18	-0.26	-0.33	6791	-7.4
8	O013	A	0.729	0.028	0.62	0.54	0.002	0.62	0.07	0.19	0.12	0.54	-0.20	-0.26	-0.32	6820	-6.8
9	O013	A	0.729	0.027	0.62	0.54	0.002	0.62	0.07	0.19	0.12	0.54	-0.17	-0.27	-0.33	6803	-8.5
10	O013	A	0.729	0.028	0.63	0.54	0.003	0.63	0.07	0.18	0.12	0.54	-0.19	-0.26	-0.33	6802	-9.3
11	O013	A	0.729	0.028	0.60	0.53	0.002	0.60	0.07	0.20	0.13	0.53	-0.18	-0.25	-0.34	6795	-4.4
12	O013	A	0.729	0.028	0.61	0.53	0.001	0.61	0.08	0.19	0.12	0.53	-0.17	-0.28	-0.32	6792	-5.7
13	O013	A	0.729	0.027	0.63	0.54	0.002	0.63	0.07	0.19	0.12	0.54	-0.16	-0.28	-0.33	6782	-9.9
14	O013	A	0.729	0.027	0.62	0.55	0.002	0.62	0.08	0.19	0.12	0.55	-0.19	-0.28	-0.32	6784	-9.9
15	O013	A	0.729	0.028	0.62	0.53	0.002	0.62	0.07	0.19	0.11	0.53	-0.19	-0.27	-0.31	6754	-6.7
16	O013	A	0.729	0.028	0.63	0.54	0.001	0.63	0.07	0.19	0.11	0.54	-0.18	-0.28	-0.32	6779	-7.3
17	O013	A	0.729	0.028	0.61	0.53	0.002	0.61	0.07	0.19	0.13	0.53	-0.16	-0.25	-0.34	6779	-6.8
18	O013	A	0.729	0.028	0.62	0.53	0.002	0.62	0.07	0.19	0.12	0.53	-0.19	-0.25	-0.34	6753	-5.9
19	O013	A	0.729	0.028	0.62	0.54	0.002	0.62	0.07	0.19	0.12	0.54	-0.16	-0.27	-0.34	6734	-5.9
20	O013	A	0.729	0.028	0.61	0.55	0.002	0.61	0.08	0.19	0.12	0.55	-0.18	-0.28	-0.32	6725	-4.7
1	O014	A	-0.109	0.030	0.72	0.42	0.002	0.72	0.17	0.03	0.07	0.42	-0.25	-0.14	-0.25	7392	4.4
2	O014	A	-0.109	0.032	0.75	0.36	0.003	0.75	0.15	0.03	0.07	0.36	-0.21	-0.11	-0.22	6809	8.1
3	O014	A	-0.109	0.031	0.76	0.34	0.002	0.76	0.15	0.03	0.06	0.34	-0.21	-0.09	-0.21	6819	5.6
4	O014	A	-0.109	0.032	0.75	0.35	0.002	0.75	0.14	0.04	0.07	0.35	-0.21	-0.12	-0.20	6794	6.6
5	O014	A	-0.109	0.031	0.75	0.36	0.002	0.75	0.14	0.03	0.07	0.36	-0.20	-0.13	-0.23	6775	3.9
6	O014	A	-0.109	0.031	0.76	0.35	0.001	0.76	0.14	0.03	0.07	0.35	-0.20	-0.09	-0.25	6795	4.1
7	O014	A	-0.109	0.031	0.76	0.36	0.002	0.76	0.15	0.03	0.06	0.36	-0.20	-0.09	-0.24	6791	3.8
8	O014	A	-0.109	0.032	0.76	0.34	0.002	0.76	0.15	0.03	0.06	0.34	-0.20	-0.10	-0.21	6820	6.5
9	O014	A	-0.109	0.031	0.76	0.34	0.002	0.76	0.15	0.03	0.06	0.34	-0.22	-0.08	-0.22	6803	5.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
10	O014	A	-0.109	0.032	0.76	0.37	0.002	0.76	0.15	0.03	0.06	0.37	-0.21	-0.13	-0.23	6802	4.5
11	O014	A	-0.109	0.032	0.75	0.37	0.002	0.75	0.15	0.03	0.06	0.37	-0.23	-0.10	-0.22	6795	5.9
12	O014	A	-0.109	0.032	0.76	0.36	0.002	0.76	0.14	0.03	0.07	0.36	-0.22	-0.11	-0.23	6792	6.0
13	O014	A	-0.109	0.031	0.76	0.35	0.003	0.76	0.15	0.03	0.06	0.35	-0.22	-0.08	-0.20	6782	4.1
14	O014	A	-0.109	0.031	0.76	0.36	0.002	0.76	0.14	0.03	0.07	0.36	-0.21	-0.12	-0.23	6784	3.1
15	O014	A	-0.109	0.032	0.76	0.34	0.002	0.76	0.14	0.03	0.07	0.34	-0.19	-0.10	-0.22	6754	5.9
16	O014	A	-0.109	0.032	0.76	0.34	0.001	0.76	0.15	0.03	0.06	0.34	-0.21	-0.08	-0.22	6779	7.1
17	O014	A	-0.109	0.031	0.75	0.37	0.002	0.75	0.15	0.03	0.07	0.37	-0.21	-0.09	-0.24	6779	5.8
18	O014	A	-0.109	0.032	0.76	0.34	0.002	0.76	0.15	0.03	0.06	0.34	-0.21	-0.09	-0.21	6753	7.1
19	O014	A	-0.109	0.032	0.75	0.35	0.001	0.75	0.15	0.03	0.07	0.35	-0.19	-0.09	-0.25	6734	8.4
20	O014	A	-0.109	0.032	0.76	0.35	0.002	0.76	0.15	0.03	0.07	0.35	-0.22	-0.09	-0.21	6725	7.8
1	O015	B	-1.123	0.038	0.84	0.52	0.002	0.06	0.84	0.04	0.05	-0.29	0.52	-0.23	-0.31	7392	-0.6
2	O015	B	-1.123	0.041	0.87	0.49	0.003	0.05	0.87	0.03	0.04	-0.28	0.49	-0.20	-0.29	6809	-2.0
3	O015	B	-1.123	0.041	0.88	0.45	0.002	0.05	0.88	0.03	0.04	-0.26	0.45	-0.22	-0.26	6819	-3.4
4	O015	B	-1.123	0.041	0.87	0.46	0.002	0.06	0.87	0.03	0.04	-0.27	0.46	-0.19	-0.28	6794	-1.7
5	O015	B	-1.123	0.041	0.88	0.44	0.003	0.05	0.88	0.03	0.04	-0.25	0.44	-0.20	-0.26	6775	-3.0
6	O015	B	-1.123	0.041	0.87	0.46	0.002	0.06	0.87	0.03	0.04	-0.26	0.46	-0.21	-0.28	6795	-3.4
7	O015	B	-1.123	0.041	0.88	0.45	0.002	0.05	0.88	0.03	0.04	-0.26	0.45	-0.20	-0.26	6791	-3.1
8	O015	B	-1.123	0.042	0.88	0.45	0.002	0.06	0.88	0.03	0.04	-0.27	0.45	-0.18	-0.26	6820	-1.4
9	O015	B	-1.123	0.041	0.88	0.44	0.001	0.05	0.88	0.03	0.04	-0.26	0.44	-0.18	-0.26	6803	-2.5
10	O015	B	-1.123	0.042	0.87	0.46	0.003	0.05	0.87	0.03	0.04	-0.26	0.46	-0.20	-0.28	6802	-0.7
11	O015	B	-1.123	0.042	0.88	0.45	0.002	0.05	0.88	0.03	0.04	-0.27	0.45	-0.18	-0.28	6795	-1.0
12	O015	B	-1.123	0.042	0.87	0.47	0.002	0.06	0.87	0.03	0.04	-0.28	0.47	-0.21	-0.27	6792	-0.3
13	O015	B	-1.123	0.041	0.89	0.44	0.003	0.05	0.89	0.03	0.03	-0.25	0.44	-0.21	-0.25	6782	-4.2
14	O015	B	-1.123	0.041	0.88	0.46	0.001	0.05	0.88	0.03	0.04	-0.28	0.46	-0.22	-0.25	6784	-4.1
15	O015	B	-1.123	0.041	0.88	0.47	0.001	0.05	0.88	0.03	0.04	-0.27	0.47	-0.22	-0.27	6754	-3.4
16	O015	B	-1.123	0.042	0.88	0.44	0.001	0.05	0.88	0.03	0.04	-0.24	0.44	-0.21	-0.26	6779	-0.6
17	O015	B	-1.123	0.041	0.87	0.45	0.002	0.05	0.87	0.03	0.04	-0.25	0.45	-0.21	-0.26	6779	-1.5
18	O015	B	-1.123	0.042	0.88	0.47	0.002	0.05	0.88	0.03	0.04	-0.27	0.47	-0.22	-0.28	6753	-2.4
19	O015	B	-1.123	0.043	0.87	0.45	0.002	0.06	0.87	0.03	0.04	-0.27	0.45	-0.20	-0.25	6734	-0.5
20	O015	B	-1.123	0.042	0.88	0.44	0.002	0.05	0.88	0.03	0.04	-0.26	0.44	-0.21	-0.25	6725	0.1
1	O016	D	1.242	0.026	0.49	0.60	0.002	0.21	0.24	0.06	0.49	-0.15	-0.51	-0.09	0.60	7392	-9.9
2	O016	D	1.242	0.027	0.52	0.61	0.002	0.20	0.22	0.06	0.52	-0.19	-0.48	-0.10	0.61	6809	-9.9
3	O016	D	1.242	0.027	0.52	0.59	0.003	0.22	0.21	0.06	0.52	-0.18	-0.49	-0.08	0.59	6819	-9.9
4	O016	D	1.242	0.027	0.51	0.62	0.002	0.22	0.21	0.05	0.51	-0.22	-0.47	-0.09	0.62	6794	-9.9
5	O016	D	1.242	0.027	0.53	0.60	0.003	0.21	0.21	0.06	0.53	-0.20	-0.47	-0.09	0.60	6775	-9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	O016	D	1.242	0.027	0.52	0.60	0.002	0.20	0.21	0.06	0.52	-0.19	-0.49	-0.10	0.60	6795	-9.9
7	O016	D	1.242	0.027	0.51	0.60	0.002	0.21	0.22	0.06	0.51	-0.20	-0.46	-0.11	0.60	6791	-9.9
8	O016	D	1.242	0.027	0.53	0.58	0.002	0.21	0.20	0.06	0.53	-0.19	-0.46	-0.10	0.58	6820	-9.9
9	O016	D	1.242	0.027	0.54	0.60	0.001	0.20	0.21	0.06	0.54	-0.20	-0.48	-0.09	0.60	6803	-9.9
10	O016	D	1.242	0.026	0.52	0.59	0.003	0.21	0.21	0.06	0.52	-0.18	-0.47	-0.11	0.59	6802	-9.9
11	O016	D	1.242	0.027	0.52	0.58	0.002	0.21	0.22	0.06	0.52	-0.17	-0.48	-0.09	0.58	6795	-9.9
12	O016	D	1.242	0.027	0.52	0.59	0.001	0.21	0.21	0.06	0.52	-0.19	-0.48	-0.09	0.59	6792	-9.9
13	O016	D	1.242	0.027	0.53	0.60	0.004	0.21	0.20	0.06	0.53	-0.20	-0.47	-0.10	0.60	6782	-9.9
14	O016	D	1.242	0.026	0.53	0.59	0.003	0.20	0.21	0.06	0.53	-0.19	-0.47	-0.10	0.59	6784	-9.9
15	O016	D	1.242	0.027	0.53	0.58	0.002	0.21	0.21	0.06	0.53	-0.18	-0.46	-0.10	0.58	6754	-9.9
16	O016	D	1.242	0.027	0.53	0.58	0.001	0.21	0.19	0.06	0.53	-0.21	-0.46	-0.09	0.58	6779	-9.9
17	O016	D	1.242	0.027	0.52	0.60	0.002	0.21	0.21	0.06	0.52	-0.19	-0.48	-0.08	0.60	6779	-9.9
18	O016	D	1.242	0.027	0.53	0.59	0.002	0.20	0.21	0.06	0.53	-0.19	-0.47	-0.09	0.59	6753	-9.9
19	O016	D	1.242	0.027	0.54	0.58	0.002	0.21	0.20	0.06	0.54	-0.20	-0.46	-0.10	0.58	6734	-9.9
20	O016	D	1.242	0.027	0.53	0.61	0.003	0.20	0.21	0.06	0.53	-0.17	-0.51	-0.10	0.61	6725	-9.9
1	O017	A	-0.308	0.031	0.76	0.43	0.002	0.76	0.10	0.11	0.04	0.43	-0.22	-0.23	-0.23	7392	0.9
2	O017	A	-0.308	0.033	0.78	0.42	0.004	0.78	0.09	0.10	0.03	0.42	-0.19	-0.24	-0.22	6809	2.0
3	O017	A	-0.308	0.033	0.78	0.43	0.002	0.78	0.09	0.09	0.03	0.43	-0.21	-0.24	-0.23	6819	-2.0
4	O017	A	-0.308	0.033	0.79	0.43	0.002	0.79	0.08	0.10	0.03	0.43	-0.22	-0.25	-0.21	6794	-1.8
5	O017	A	-0.308	0.033	0.77	0.43	0.003	0.77	0.09	0.10	0.03	0.43	-0.21	-0.25	-0.22	6775	-1.3
6	O017	A	-0.308	0.033	0.78	0.43	0.002	0.78	0.09	0.09	0.04	0.43	-0.21	-0.25	-0.24	6795	-2.1
7	O017	A	-0.308	0.033	0.78	0.42	0.003	0.78	0.08	0.09	0.04	0.42	-0.19	-0.23	-0.25	6791	-1.1
8	O017	A	-0.308	0.033	0.78	0.40	0.002	0.78	0.08	0.10	0.03	0.40	-0.19	-0.23	-0.22	6820	1.8
9	O017	A	-0.308	0.033	0.79	0.42	0.002	0.79	0.08	0.10	0.03	0.42	-0.21	-0.25	-0.22	6803	-1.9
10	O017	A	-0.308	0.033	0.78	0.44	0.004	0.78	0.08	0.11	0.04	0.44	-0.19	-0.27	-0.25	6802	0.3
11	O017	A	-0.308	0.033	0.79	0.41	0.002	0.79	0.08	0.10	0.04	0.41	-0.18	-0.23	-0.24	6795	0.1
12	O017	A	-0.308	0.034	0.78	0.44	0.002	0.78	0.08	0.10	0.04	0.44	-0.20	-0.26	-0.26	6792	0.1
13	O017	A	-0.308	0.033	0.79	0.44	0.003	0.79	0.07	0.09	0.03	0.44	-0.20	-0.26	-0.22	6782	-4.1
14	O017	A	-0.308	0.033	0.79	0.43	0.003	0.79	0.09	0.09	0.04	0.43	-0.21	-0.23	-0.25	6784	-3.3
15	O017	A	-0.308	0.033	0.79	0.42	0.002	0.79	0.08	0.09	0.04	0.42	-0.20	-0.24	-0.23	6754	-1.3
16	O017	A	-0.308	0.034	0.79	0.44	0.002	0.79	0.08	0.10	0.04	0.44	-0.20	-0.27	-0.23	6779	-0.3
17	O017	A	-0.308	0.033	0.78	0.42	0.003	0.78	0.08	0.10	0.03	0.42	-0.19	-0.24	-0.23	6779	-0.9
18	O017	A	-0.308	0.034	0.79	0.43	0.003	0.79	0.08	0.10	0.03	0.43	-0.19	-0.25	-0.25	6753	-0.5
19	O017	A	-0.308	0.034	0.79	0.44	0.002	0.79	0.09	0.09	0.03	0.44	-0.24	-0.24	-0.23	6734	-0.8
20	O017	A	-0.308	0.034	0.78	0.41	0.002	0.78	0.08	0.10	0.03	0.41	-0.19	-0.25	-0.21	6725	1.5
1	O018	D	-0.205	0.030	0.76	0.37	0.002	0.03	0.10	0.11	0.76	-0.23	-0.14	-0.23	0.37	7392	4.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
2	O018	D	-0.205	0.033	0.78	0.39	0.002	0.03	0.10	0.10	0.78	-0.24	-0.15	-0.25	0.39	6809	4.5
3	O018	D	-0.205	0.032	0.78	0.36	0.002	0.02	0.10	0.10	0.78	-0.21	-0.14	-0.25	0.36	6819	2.9
4	O018	D	-0.205	0.032	0.78	0.33	0.002	0.02	0.10	0.10	0.78	-0.22	-0.12	-0.21	0.33	6794	6.0
5	O018	D	-0.205	0.032	0.77	0.37	0.002	0.02	0.10	0.10	0.77	-0.21	-0.14	-0.25	0.37	6775	2.1
6	O018	D	-0.205	0.032	0.78	0.37	0.001	0.03	0.10	0.10	0.78	-0.21	-0.16	-0.23	0.37	6795	3.0
7	O018	D	-0.205	0.032	0.78	0.36	0.002	0.02	0.10	0.10	0.78	-0.22	-0.14	-0.23	0.36	6791	3.7
8	O018	D	-0.205	0.033	0.78	0.37	0.002	0.02	0.09	0.10	0.78	-0.23	-0.14	-0.24	0.37	6820	4.9
9	O018	D	-0.205	0.032	0.77	0.36	0.002	0.02	0.10	0.10	0.77	-0.20	-0.15	-0.24	0.36	6803	3.6
10	O018	D	-0.205	0.032	0.77	0.36	0.003	0.02	0.10	0.10	0.77	-0.22	-0.16	-0.21	0.36	6802	5.1
11	O018	D	-0.205	0.033	0.77	0.37	0.002	0.02	0.10	0.10	0.77	-0.20	-0.17	-0.23	0.37	6795	5.3
12	O018	D	-0.205	0.033	0.78	0.37	0.001	0.03	0.09	0.10	0.78	-0.24	-0.16	-0.21	0.37	6792	4.7
13	O018	D	-0.205	0.032	0.79	0.36	0.003	0.02	0.09	0.10	0.79	-0.20	-0.13	-0.25	0.36	6782	2.3
14	O018	D	-0.205	0.032	0.78	0.37	0.002	0.02	0.10	0.10	0.78	-0.21	-0.16	-0.24	0.37	6784	1.4
15	O018	D	-0.205	0.032	0.79	0.33	0.002	0.02	0.10	0.09	0.79	-0.21	-0.13	-0.21	0.33	6754	5.2
16	O018	D	-0.205	0.033	0.78	0.36	0.001	0.02	0.10	0.10	0.78	-0.20	-0.14	-0.24	0.36	6779	6.1
17	O018	D	-0.205	0.032	0.78	0.35	0.002	0.02	0.10	0.09	0.78	-0.21	-0.14	-0.21	0.35	6779	4.9
18	O018	D	-0.205	0.033	0.80	0.34	0.002	0.02	0.09	0.09	0.80	-0.20	-0.15	-0.22	0.34	6753	3.3
19	O018	D	-0.205	0.033	0.78	0.34	0.002	0.02	0.10	0.10	0.78	-0.19	-0.15	-0.22	0.34	6734	6.4
20	O018	D	-0.205	0.033	0.78	0.36	0.002	0.02	0.10	0.10	0.78	-0.24	-0.15	-0.22	0.36	6725	6.4
1	O019	D	-0.563	0.033	0.80	0.51	0.003	0.06	0.09	0.05	0.80	-0.25	-0.33	-0.22	0.51	7392	-5.6
2	O019	D	-0.563	0.035	0.81	0.52	0.002	0.06	0.09	0.05	0.81	-0.26	-0.32	-0.23	0.52	6809	-4.2
3	O019	D	-0.563	0.035	0.82	0.50	0.002	0.06	0.08	0.04	0.82	-0.25	-0.32	-0.21	0.50	6819	-6.9
4	O019	D	-0.563	0.035	0.81	0.49	0.002	0.05	0.09	0.05	0.81	-0.22	-0.33	-0.22	0.49	6794	-4.6
5	O019	D	-0.563	0.035	0.82	0.48	0.003	0.06	0.08	0.04	0.82	-0.25	-0.29	-0.22	0.48	6775	-6.9
6	O019	D	-0.563	0.035	0.82	0.49	0.002	0.05	0.08	0.05	0.82	-0.26	-0.30	-0.21	0.49	6795	-7.5
7	O019	D	-0.563	0.035	0.81	0.50	0.002	0.05	0.08	0.05	0.81	-0.25	-0.32	-0.21	0.50	6791	-5.6
8	O019	D	-0.563	0.036	0.82	0.51	0.003	0.06	0.08	0.04	0.82	-0.27	-0.30	-0.22	0.51	6820	-6.0
9	O019	D	-0.563	0.035	0.82	0.50	0.002	0.05	0.08	0.04	0.82	-0.26	-0.31	-0.22	0.50	6803	-6.8
10	O019	D	-0.563	0.035	0.81	0.53	0.003	0.05	0.08	0.05	0.81	-0.26	-0.32	-0.25	0.53	6802	-5.3
11	O019	D	-0.563	0.036	0.81	0.51	0.003	0.05	0.09	0.05	0.81	-0.25	-0.32	-0.21	0.51	6795	-3.8
12	O019	D	-0.563	0.036	0.82	0.51	0.002	0.05	0.08	0.05	0.82	-0.27	-0.31	-0.22	0.51	6792	-5.1
13	O019	D	-0.563	0.035	0.83	0.50	0.003	0.05	0.07	0.05	0.83	-0.26	-0.30	-0.22	0.50	6782	-7.3
14	O019	D	-0.563	0.035	0.82	0.51	0.002	0.05	0.08	0.05	0.82	-0.27	-0.31	-0.22	0.51	6784	-7.3
15	O019	D	-0.563	0.035	0.82	0.51	0.002	0.05	0.09	0.04	0.82	-0.24	-0.33	-0.22	0.51	6754	-6.0
16	O019	D	-0.563	0.036	0.83	0.50	0.002	0.05	0.07	0.05	0.83	-0.25	-0.30	-0.24	0.50	6779	-5.4
17	O019	D	-0.563	0.035	0.82	0.50	0.003	0.05	0.08	0.05	0.82	-0.22	-0.31	-0.24	0.50	6779	-6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
18	O019	D	-0.563	0.036	0.82	0.52	0.002	0.05	0.08	0.05	0.82	-0.26	-0.33	-0.24	0.52	6753	-5.7
19	O019	D	-0.563	0.036	0.82	0.51	0.002	0.05	0.08	0.05	0.82	-0.25	-0.31	-0.23	0.51	6734	-3.9
20	O019	D	-0.563	0.036	0.82	0.50	0.002	0.06	0.08	0.04	0.82	-0.25	-0.32	-0.21	0.50	6725	-3.8
1	O020	C	-1.114	0.038	0.85	0.55	0.003	0.07	0.06	0.85	0.02	-0.42	-0.25	0.55	-0.20	7392	-4.8
2	O020	C	-1.114	0.041	0.87	0.53	0.003	0.05	0.06	0.87	0.02	-0.37	-0.29	0.53	-0.17	6809	-5.6
3	O020	C	-1.114	0.041	0.87	0.52	0.002	0.05	0.06	0.87	0.02	-0.38	-0.25	0.52	-0.21	6819	-5.9
4	O020	C	-1.114	0.041	0.87	0.51	0.002	0.05	0.05	0.87	0.02	-0.37	-0.25	0.51	-0.19	6794	-4.9
5	O020	C	-1.114	0.040	0.87	0.52	0.003	0.05	0.05	0.87	0.02	-0.37	-0.26	0.52	-0.19	6775	-7.0
6	O020	C	-1.114	0.041	0.87	0.50	0.002	0.05	0.05	0.87	0.02	-0.36	-0.25	0.50	-0.20	6795	-6.4
7	O020	C	-1.114	0.041	0.88	0.50	0.002	0.05	0.05	0.88	0.02	-0.35	-0.24	0.50	-0.20	6791	-7.2
8	O020	C	-1.114	0.042	0.87	0.51	0.002	0.05	0.06	0.87	0.02	-0.39	-0.25	0.51	-0.16	6820	-4.5
9	O020	C	-1.114	0.041	0.88	0.52	0.002	0.04	0.06	0.88	0.02	-0.34	-0.28	0.52	-0.21	6803	-7.2
10	O020	C	-1.114	0.042	0.87	0.52	0.003	0.05	0.06	0.87	0.02	-0.38	-0.26	0.52	-0.18	6802	-4.9
11	O020	C	-1.114	0.042	0.87	0.53	0.003	0.05	0.05	0.87	0.02	-0.38	-0.25	0.53	-0.21	6795	-5.4
12	O020	C	-1.114	0.042	0.88	0.51	0.002	0.05	0.05	0.88	0.02	-0.39	-0.26	0.51	-0.16	6792	-4.7
13	O020	C	-1.114	0.041	0.88	0.52	0.003	0.05	0.05	0.88	0.02	-0.38	-0.26	0.52	-0.19	6782	-7.9
14	O020	C	-1.114	0.041	0.88	0.51	0.003	0.05	0.05	0.88	0.02	-0.37	-0.26	0.51	-0.18	6784	-7.1
15	O020	C	-1.114	0.041	0.88	0.52	0.003	0.05	0.05	0.88	0.02	-0.37	-0.27	0.52	-0.19	6754	-5.9
16	O020	C	-1.114	0.042	0.88	0.51	0.002	0.05	0.05	0.88	0.02	-0.37	-0.26	0.51	-0.18	6779	-7.3
17	O020	C	-1.114	0.041	0.87	0.52	0.003	0.05	0.05	0.87	0.02	-0.37	-0.26	0.52	-0.18	6779	-5.8
18	O020	C	-1.114	0.042	0.87	0.53	0.003	0.05	0.06	0.87	0.02	-0.40	-0.26	0.53	-0.19	6753	-4.6
19	O020	C	-1.114	0.042	0.88	0.50	0.002	0.05	0.05	0.88	0.02	-0.36	-0.25	0.50	-0.19	6734	-5.3
20	O020	C	-1.114	0.042	0.87	0.51	0.002	0.05	0.05	0.87	0.02	-0.38	-0.25	0.51	-0.19	6725	-4.4
1	O021	C	-1.479	0.043	0.89	0.39	0.002	0.02	0.02	0.89	0.06	-0.21	-0.13	0.39	-0.28	7392	1.8
2	O021	C	-1.479	0.046	0.90	0.36	0.003	0.02	0.02	0.90	0.06	-0.17	-0.12	0.36	-0.26	6809	3.5
3	O021	C	-1.479	0.046	0.90	0.34	0.002	0.02	0.02	0.90	0.06	-0.15	-0.14	0.34	-0.24	6819	2.1
4	O021	C	-1.479	0.046	0.91	0.34	0.003	0.01	0.02	0.91	0.06	-0.15	-0.11	0.34	-0.26	6794	1.1
5	O021	C	-1.479	0.046	0.90	0.34	0.003	0.02	0.02	0.90	0.06	-0.17	-0.14	0.34	-0.23	6775	1.0
6	O021	C	-1.479	0.046	0.91	0.31	0.003	0.02	0.02	0.91	0.05	-0.14	-0.12	0.31	-0.23	6795	1.7
7	O021	C	-1.479	0.046	0.90	0.34	0.003	0.01	0.02	0.90	0.06	-0.13	-0.13	0.34	-0.26	6791	2.1
8	O021	C	-1.479	0.047	0.91	0.35	0.002	0.02	0.02	0.91	0.05	-0.17	-0.12	0.35	-0.25	6820	1.8
9	O021	C	-1.479	0.046	0.91	0.32	0.002	0.01	0.02	0.91	0.05	-0.14	-0.12	0.32	-0.24	6803	1.5
10	O021	C	-1.479	0.047	0.91	0.34	0.003	0.02	0.02	0.91	0.05	-0.16	-0.13	0.34	-0.24	6802	1.5
11	O021	C	-1.479	0.047	0.91	0.37	0.003	0.02	0.02	0.91	0.05	-0.16	-0.17	0.37	-0.25	6795	1.2
12	O021	C	-1.479	0.048	0.91	0.35	0.002	0.02	0.02	0.91	0.05	-0.17	-0.14	0.35	-0.25	6792	1.4
13	O021	C	-1.479	0.046	0.91	0.35	0.002	0.02	0.02	0.91	0.06	-0.17	-0.12	0.35	-0.25	6782	0.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
14	O021	C	-1.479	0.046	0.90	0.34	0.003	0.02	0.02	0.90	0.05	-0.14	-0.15	0.34	-0.25	6784	1.7
15	O021	C	-1.479	0.047	0.91	0.36	0.002	0.02	0.02	0.91	0.05	-0.16	-0.14	0.36	-0.26	6754	0.4
16	O021	C	-1.479	0.048	0.91	0.33	0.002	0.01	0.02	0.91	0.05	-0.16	-0.14	0.33	-0.23	6779	3.3
17	O021	C	-1.479	0.046	0.90	0.37	0.004	0.02	0.02	0.90	0.05	-0.18	-0.14	0.37	-0.25	6779	0.0
18	O021	C	-1.479	0.047	0.91	0.33	0.003	0.02	0.02	0.91	0.05	-0.14	-0.13	0.33	-0.25	6753	1.6
19	O021	C	-1.479	0.048	0.91	0.33	0.003	0.02	0.02	0.91	0.05	-0.16	-0.12	0.33	-0.25	6734	4.4
20	O021	C	-1.479	0.048	0.91	0.36	0.002	0.01	0.02	0.91	0.06	-0.16	-0.14	0.36	-0.26	6725	4.4
1	O022	A	-0.180	0.030	0.75	0.43	0.004	0.75	0.06	0.15	0.04	0.43	-0.22	-0.24	-0.23	7392	1.8
2	O022	A	-0.180	0.032	0.76	0.42	0.004	0.76	0.06	0.14	0.03	0.42	-0.20	-0.25	-0.20	6809	3.8
3	O022	A	-0.180	0.032	0.77	0.40	0.004	0.77	0.06	0.14	0.03	0.40	-0.20	-0.24	-0.19	6819	1.6
4	O022	A	-0.180	0.032	0.77	0.39	0.003	0.77	0.05	0.14	0.03	0.39	-0.18	-0.23	-0.21	6794	2.8
5	O022	A	-0.180	0.032	0.77	0.40	0.004	0.77	0.06	0.14	0.03	0.40	-0.19	-0.24	-0.21	6775	0.6
6	O022	A	-0.180	0.032	0.76	0.40	0.005	0.76	0.06	0.15	0.03	0.40	-0.19	-0.26	-0.20	6795	2.6
7	O022	A	-0.180	0.032	0.77	0.39	0.004	0.77	0.05	0.15	0.03	0.39	-0.19	-0.23	-0.18	6791	2.2
8	O022	A	-0.180	0.032	0.78	0.41	0.004	0.78	0.05	0.13	0.04	0.41	-0.20	-0.23	-0.22	6820	2.5
9	O022	A	-0.180	0.032	0.77	0.40	0.003	0.77	0.06	0.14	0.03	0.40	-0.21	-0.23	-0.19	6803	1.5
10	O022	A	-0.180	0.032	0.77	0.40	0.004	0.77	0.05	0.14	0.03	0.40	-0.20	-0.24	-0.20	6802	2.0
11	O022	A	-0.180	0.032	0.77	0.40	0.004	0.77	0.05	0.14	0.03	0.40	-0.18	-0.25	-0.21	6795	2.4
12	O022	A	-0.180	0.033	0.77	0.40	0.003	0.77	0.05	0.15	0.03	0.40	-0.18	-0.24	-0.21	6792	4.2
13	O022	A	-0.180	0.032	0.77	0.39	0.004	0.77	0.06	0.14	0.03	0.39	-0.20	-0.23	-0.18	6782	2.4
14	O022	A	-0.180	0.032	0.77	0.41	0.003	0.77	0.05	0.14	0.03	0.41	-0.20	-0.24	-0.23	6784	0.2
15	O022	A	-0.180	0.032	0.77	0.40	0.003	0.77	0.05	0.15	0.03	0.40	-0.17	-0.25	-0.20	6754	3.0
16	O022	A	-0.180	0.033	0.77	0.40	0.003	0.77	0.05	0.14	0.03	0.40	-0.23	-0.22	-0.21	6779	4.5
17	O022	A	-0.180	0.032	0.77	0.39	0.005	0.77	0.05	0.14	0.03	0.39	-0.18	-0.24	-0.20	6779	2.5
18	O022	A	-0.180	0.033	0.76	0.41	0.003	0.76	0.06	0.15	0.03	0.41	-0.21	-0.24	-0.20	6753	5.7
19	O022	A	-0.180	0.033	0.77	0.40	0.003	0.77	0.05	0.15	0.03	0.40	-0.18	-0.24	-0.21	6734	4.3
20	O022	A	-0.180	0.033	0.76	0.39	0.003	0.76	0.06	0.14	0.04	0.39	-0.20	-0.23	-0.19	6725	7.2
1	O052	D	-2.017	0.052	0.92	0.34	0.001	0.02	0.01	0.04	0.92	-0.22	-0.19	-0.17	0.34	7392	3.4
2	O052	D	-2.017	0.056	0.94	0.30	0.001	0.02	0.01	0.04	0.94	-0.20	-0.14	-0.16	0.30	6809	4.5
3	O052	D	-2.017	0.056	0.94	0.27	0.001	0.02	0.01	0.04	0.94	-0.17	-0.14	-0.15	0.27	6819	2.3
4	O052	D	-2.017	0.057	0.94	0.28	0.001	0.02	0.01	0.04	0.94	-0.19	-0.15	-0.15	0.28	6794	2.7
5	O052	D	-2.017	0.056	0.94	0.27	0.001	0.02	0.01	0.03	0.94	-0.17	-0.17	-0.12	0.27	6775	3.6
6	O052	D	-2.017	0.056	0.94	0.29	0.000	0.02	0.01	0.04	0.94	-0.20	-0.14	-0.16	0.29	6795	4.0
7	O052	D	-2.017	0.056	0.94	0.27	0.001	0.01	0.01	0.03	0.94	-0.14	-0.15	-0.15	0.27	6791	2.4
8	O052	D	-2.017	0.058	0.94	0.29	0.001	0.02	0.01	0.04	0.94	-0.17	-0.14	-0.17	0.29	6820	4.0
9	O052	D	-2.017	0.057	0.95	0.25	0.001	0.01	0.01	0.03	0.95	-0.16	-0.15	-0.13	0.25	6803	0.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
10	O052	D	-2.017	0.058	0.94	0.30	0.001	0.02	0.01	0.04	0.94	-0.18	-0.17	-0.16	0.30	6802	2.6
11	O052	D	-2.017	0.058	0.94	0.27	0.001	0.02	0.01	0.04	0.94	-0.19	-0.15	-0.14	0.27	6795	3.3
12	O052	D	-2.017	0.059	0.94	0.28	0.001	0.02	0.01	0.03	0.94	-0.19	-0.14	-0.15	0.28	6792	3.9
13	O052	D	-2.017	0.057	0.94	0.27	0.002	0.02	0.01	0.03	0.94	-0.16	-0.13	-0.14	0.27	6782	2.9
14	O052	D	-2.017	0.057	0.94	0.29	0.001	0.02	0.01	0.04	0.94	-0.17	-0.16	-0.16	0.29	6784	2.4
15	O052	D	-2.017	0.057	0.94	0.29	0.001	0.02	0.01	0.03	0.94	-0.18	-0.16	-0.15	0.29	6754	3.4
16	O052	D	-2.017	0.059	0.94	0.28	0.001	0.02	0.01	0.03	0.94	-0.20	-0.18	-0.11	0.28	6779	4.1
17	O052	D	-2.017	0.056	0.94	0.28	0.002	0.02	0.01	0.04	0.94	-0.16	-0.18	-0.14	0.28	6779	3.7
18	O052	D	-2.017	0.058	0.94	0.28	0.001	0.02	0.01	0.03	0.94	-0.18	-0.16	-0.15	0.28	6753	4.2
19	O052	D	-2.017	0.059	0.94	0.27	0.001	0.02	0.01	0.04	0.94	-0.13	-0.15	-0.17	0.27	6734	4.0
20	O052	D	-2.017	0.058	0.94	0.26	0.001	0.02	0.01	0.03	0.94	-0.16	-0.14	-0.14	0.26	6725	4.8
1	O053	A	0.101	0.029	0.70	0.48	0.001	0.70	0.20	0.05	0.04	0.48	-0.29	-0.23	-0.24	7392	-0.3
2	O053	A	0.101	0.031	0.73	0.46	0.002	0.73	0.19	0.04	0.03	0.46	-0.31	-0.18	-0.22	6809	-1.0
3	O053	A	0.101	0.030	0.73	0.45	0.001	0.73	0.19	0.05	0.03	0.45	-0.30	-0.21	-0.20	6819	-2.0
4	O053	A	0.101	0.030	0.72	0.46	0.002	0.72	0.20	0.04	0.03	0.46	-0.32	-0.20	-0.20	6794	-2.2
5	O053	A	0.101	0.030	0.73	0.45	0.001	0.73	0.19	0.05	0.03	0.45	-0.31	-0.20	-0.21	6775	-3.9
6	O053	A	0.101	0.030	0.73	0.45	0.001	0.73	0.20	0.05	0.03	0.45	-0.31	-0.21	-0.19	6795	-2.8
7	O053	A	0.101	0.030	0.72	0.44	0.002	0.72	0.20	0.05	0.03	0.44	-0.29	-0.19	-0.20	6791	-1.5
8	O053	A	0.101	0.031	0.73	0.43	0.002	0.73	0.20	0.04	0.03	0.43	-0.29	-0.19	-0.19	6820	1.1
9	O053	A	0.101	0.030	0.74	0.43	0.002	0.74	0.18	0.04	0.03	0.43	-0.29	-0.17	-0.23	6803	-3.9
10	O053	A	0.101	0.030	0.73	0.44	0.001	0.73	0.19	0.05	0.03	0.44	-0.26	-0.20	-0.26	6802	-1.2
11	O053	A	0.101	0.031	0.73	0.42	0.001	0.73	0.19	0.04	0.03	0.42	-0.29	-0.18	-0.19	6795	0.0
12	O053	A	0.101	0.031	0.73	0.46	0.001	0.73	0.19	0.05	0.03	0.46	-0.30	-0.23	-0.20	6792	-0.8
13	O053	A	0.101	0.030	0.74	0.45	0.002	0.74	0.19	0.05	0.03	0.45	-0.30	-0.20	-0.20	6782	-3.7
14	O053	A	0.101	0.030	0.73	0.45	0.001	0.73	0.20	0.05	0.03	0.45	-0.31	-0.19	-0.21	6784	-3.5
15	O053	A	0.101	0.030	0.73	0.43	0.002	0.73	0.20	0.04	0.03	0.43	-0.29	-0.19	-0.20	6754	-1.2
16	O053	A	0.101	0.031	0.74	0.44	0.002	0.74	0.18	0.05	0.03	0.44	-0.29	-0.20	-0.20	6779	-0.4
17	O053	A	0.101	0.030	0.73	0.44	0.002	0.73	0.19	0.04	0.03	0.44	-0.30	-0.17	-0.23	6779	-2.2
18	O053	A	0.101	0.031	0.74	0.43	0.001	0.74	0.19	0.04	0.03	0.43	-0.30	-0.20	-0.20	6753	-1.2
19	O053	A	0.101	0.031	0.75	0.43	0.002	0.75	0.17	0.05	0.03	0.43	-0.28	-0.20	-0.20	6734	-2.4
20	O053	A	0.101	0.031	0.73	0.45	0.001	0.73	0.19	0.04	0.03	0.45	-0.29	-0.21	-0.23	6725	0.8
1	O054	C	-1.010	0.037	0.86	0.34	0.002	0.03	0.08	0.86	0.03	-0.20	-0.18	0.34	-0.19	7392	4.5
2	O054	C	-1.010	0.040	0.88	0.31	0.002	0.02	0.07	0.88	0.03	-0.16	-0.19	0.31	-0.16	6809	4.1
3	O054	C	-1.010	0.039	0.87	0.32	0.001	0.02	0.08	0.87	0.03	-0.15	-0.18	0.32	-0.19	6819	5.2
4	O054	C	-1.010	0.040	0.88	0.33	0.002	0.03	0.07	0.88	0.03	-0.18	-0.19	0.33	-0.17	6794	2.8
5	O054	C	-1.010	0.039	0.87	0.31	0.002	0.03	0.07	0.87	0.03	-0.17	-0.17	0.31	-0.16	6775	3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	O054	C	-1.010	0.039	0.87	0.34	0.001	0.03	0.08	0.87	0.03	-0.18	-0.19	0.34	-0.20	6795	1.4
7	O054	C	-1.010	0.039	0.88	0.31	0.002	0.02	0.07	0.88	0.03	-0.19	-0.16	0.31	-0.17	6791	2.3
8	O054	C	-1.010	0.040	0.87	0.30	0.002	0.02	0.08	0.87	0.02	-0.18	-0.18	0.30	-0.13	6820	5.0
9	O054	C	-1.010	0.040	0.88	0.33	0.001	0.02	0.07	0.88	0.03	-0.18	-0.18	0.33	-0.19	6803	0.3
10	O054	C	-1.010	0.040	0.87	0.31	0.002	0.02	0.08	0.87	0.03	-0.18	-0.18	0.31	-0.17	6802	3.9
11	O054	C	-1.010	0.041	0.87	0.31	0.001	0.02	0.08	0.87	0.03	-0.18	-0.17	0.31	-0.17	6795	4.6
12	O054	C	-1.010	0.041	0.87	0.31	0.001	0.02	0.08	0.87	0.03	-0.17	-0.17	0.31	-0.17	6792	5.0
13	O054	C	-1.010	0.040	0.88	0.32	0.003	0.02	0.07	0.88	0.03	-0.15	-0.19	0.32	-0.17	6782	1.5
14	O054	C	-1.010	0.039	0.88	0.33	0.002	0.03	0.07	0.88	0.03	-0.19	-0.19	0.33	-0.16	6784	1.0
15	O054	C	-1.010	0.040	0.88	0.33	0.001	0.02	0.07	0.88	0.03	-0.17	-0.20	0.33	-0.18	6754	4.9
16	O054	C	-1.010	0.041	0.88	0.31	0.002	0.02	0.07	0.88	0.02	-0.17	-0.18	0.31	-0.17	6779	4.1
17	O054	C	-1.010	0.039	0.88	0.31	0.002	0.02	0.07	0.88	0.03	-0.17	-0.16	0.31	-0.18	6779	3.5
18	O054	C	-1.010	0.041	0.88	0.31	0.001	0.02	0.07	0.88	0.03	-0.21	-0.18	0.31	-0.13	6753	3.4
19	O054	C	-1.010	0.041	0.87	0.31	0.001	0.02	0.07	0.87	0.03	-0.17	-0.17	0.31	-0.18	6734	5.9
20	O054	C	-1.010	0.041	0.87	0.34	0.001	0.03	0.07	0.87	0.03	-0.21	-0.19	0.34	-0.17	6725	5.5
1	O055	C	0.356	0.028	0.64	0.54	0.001	0.21	0.09	0.64	0.06	-0.39	-0.15	0.54	-0.25	7392	-2.3
2	O055	C	0.356	0.030	0.67	0.53	0.002	0.20	0.08	0.67	0.05	-0.39	-0.15	0.53	-0.22	6809	-1.5
3	O055	C	0.356	0.029	0.68	0.53	0.001	0.20	0.08	0.68	0.05	-0.39	-0.16	0.53	-0.23	6819	-5.4
4	O055	C	0.356	0.029	0.68	0.53	0.001	0.19	0.08	0.68	0.05	-0.39	-0.15	0.53	-0.24	6794	-4.2
5	O055	C	0.356	0.029	0.68	0.53	0.001	0.20	0.07	0.68	0.05	-0.39	-0.14	0.53	-0.24	6775	-6.1
6	O055	C	0.356	0.029	0.68	0.52	0.001	0.19	0.08	0.68	0.05	-0.39	-0.14	0.52	-0.23	6795	-5.4
7	O055	C	0.356	0.029	0.68	0.53	0.001	0.19	0.08	0.68	0.05	-0.37	-0.17	0.53	-0.24	6791	-4.9
8	O055	C	0.356	0.029	0.68	0.54	0.001	0.20	0.07	0.68	0.05	-0.41	-0.12	0.54	-0.24	6820	-4.2
9	O055	C	0.356	0.029	0.68	0.50	0.001	0.19	0.08	0.68	0.05	-0.36	-0.13	0.50	-0.24	6803	-2.4
10	O055	C	0.356	0.029	0.69	0.52	0.001	0.19	0.09	0.69	0.04	-0.38	-0.16	0.52	-0.23	6802	-4.7
11	O055	C	0.356	0.029	0.67	0.52	0.002	0.20	0.08	0.67	0.05	-0.38	-0.14	0.52	-0.24	6795	-2.6
12	O055	C	0.356	0.029	0.66	0.53	0.001	0.20	0.08	0.66	0.05	-0.40	-0.13	0.53	-0.23	6792	-0.8
13	O055	C	0.356	0.029	0.69	0.51	0.002	0.19	0.08	0.69	0.04	-0.38	-0.13	0.51	-0.22	6782	-5.1
14	O055	C	0.356	0.029	0.68	0.53	0.002	0.20	0.08	0.68	0.05	-0.40	-0.16	0.53	-0.20	6784	-5.9
15	O055	C	0.356	0.029	0.69	0.52	0.001	0.19	0.07	0.69	0.05	-0.38	-0.12	0.52	-0.25	6754	-4.1
16	O055	C	0.356	0.029	0.69	0.51	0.002	0.18	0.08	0.69	0.04	-0.38	-0.13	0.51	-0.23	6779	-3.8
17	O055	C	0.356	0.029	0.67	0.52	0.002	0.19	0.08	0.67	0.05	-0.37	-0.14	0.52	-0.25	6779	-2.7
18	O055	C	0.356	0.029	0.68	0.53	0.001	0.19	0.08	0.68	0.06	-0.37	-0.15	0.53	-0.27	6753	-3.8
19	O055	C	0.356	0.030	0.69	0.51	0.002	0.18	0.08	0.69	0.04	-0.37	-0.16	0.51	-0.22	6734	-1.8
20	O055	C	0.356	0.030	0.68	0.53	0.001	0.19	0.08	0.68	0.05	-0.36	-0.18	0.53	-0.26	6725	0.3
1	O056	D	-0.586	0.033	0.80	0.49	0.001	0.05	0.14	0.02	0.80	-0.23	-0.36	-0.17	0.49	7392	-1.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
2	O056	D	-0.586	0.036	0.81	0.48	0.002	0.04	0.13	0.02	0.81	-0.21	-0.34	-0.19	0.48	6809	-0.0
3	O056	D	-0.586	0.035	0.82	0.46	0.001	0.04	0.13	0.01	0.82	-0.21	-0.36	-0.14	0.46	6819	-2.0
4	O056	D	-0.586	0.035	0.82	0.45	0.001	0.04	0.13	0.02	0.82	-0.21	-0.33	-0.15	0.45	6794	-1.1
5	O056	D	-0.586	0.035	0.82	0.46	0.002	0.04	0.13	0.01	0.82	-0.20	-0.34	-0.15	0.46	6775	-2.7
6	O056	D	-0.586	0.035	0.83	0.44	0.001	0.04	0.12	0.02	0.83	-0.22	-0.32	-0.16	0.44	6795	-2.4
7	O056	D	-0.586	0.035	0.83	0.44	0.001	0.04	0.13	0.01	0.83	-0.22	-0.33	-0.13	0.44	6791	-1.7
8	O056	D	-0.586	0.036	0.83	0.46	0.001	0.04	0.12	0.01	0.83	-0.22	-0.34	-0.18	0.46	6820	-2.3
9	O056	D	-0.586	0.035	0.83	0.42	0.001	0.03	0.13	0.01	0.83	-0.18	-0.33	-0.14	0.42	6803	-2.7
10	O056	D	-0.586	0.036	0.83	0.46	0.001	0.04	0.12	0.01	0.83	-0.23	-0.33	-0.17	0.46	6802	-2.8
11	O056	D	-0.586	0.036	0.82	0.46	0.001	0.04	0.13	0.01	0.82	-0.21	-0.34	-0.18	0.46	6795	-1.8
12	O056	D	-0.586	0.036	0.83	0.45	0.001	0.04	0.12	0.01	0.83	-0.21	-0.33	-0.17	0.45	6792	-2.8
13	O056	D	-0.586	0.035	0.83	0.44	0.002	0.04	0.12	0.01	0.83	-0.23	-0.31	-0.17	0.44	6782	-3.2
14	O056	D	-0.586	0.035	0.83	0.46	0.001	0.04	0.12	0.01	0.83	-0.22	-0.34	-0.16	0.46	6784	-5.3
15	O056	D	-0.586	0.035	0.82	0.46	0.001	0.04	0.13	0.01	0.82	-0.22	-0.33	-0.16	0.46	6754	-1.6
16	O056	D	-0.586	0.036	0.82	0.45	0.002	0.04	0.12	0.01	0.82	-0.22	-0.32	-0.16	0.45	6779	-1.1
17	O056	D	-0.586	0.035	0.82	0.47	0.002	0.04	0.13	0.01	0.82	-0.21	-0.35	-0.15	0.47	6779	-3.4
18	O056	D	-0.586	0.036	0.82	0.47	0.001	0.04	0.12	0.02	0.82	-0.20	-0.34	-0.20	0.47	6753	-1.3
19	O056	D	-0.586	0.036	0.83	0.43	0.001	0.04	0.12	0.01	0.83	-0.21	-0.30	-0.16	0.43	6734	-0.5
20	O056	D	-0.586	0.036	0.83	0.46	0.001	0.04	0.12	0.02	0.83	-0.23	-0.33	-0.17	0.46	6725	-1.3
1	O057	C	0.402	0.028	0.64	0.59	0.002	0.11	0.09	0.64	0.17	-0.22	-0.17	0.59	-0.44	7392	-7.1
2	O057	C	0.402	0.029	0.67	0.58	0.002	0.09	0.09	0.67	0.15	-0.21	-0.21	0.58	-0.41	6809	-5.1
3	O057	C	0.402	0.029	0.68	0.58	0.001	0.10	0.08	0.68	0.15	-0.22	-0.19	0.58	-0.43	6819	-9.9
4	O057	C	0.402	0.029	0.67	0.55	0.002	0.10	0.09	0.67	0.15	-0.22	-0.19	0.55	-0.39	6794	-5.7
5	O057	C	0.402	0.029	0.67	0.57	0.001	0.10	0.08	0.67	0.15	-0.24	-0.21	0.57	-0.38	6775	-9.2
6	O057	C	0.402	0.029	0.67	0.57	0.001	0.10	0.08	0.67	0.15	-0.23	-0.18	0.57	-0.42	6795	-9.0
7	O057	C	0.402	0.029	0.66	0.57	0.002	0.10	0.09	0.66	0.15	-0.23	-0.21	0.57	-0.39	6791	-8.0
8	O057	C	0.402	0.029	0.68	0.57	0.002	0.09	0.08	0.68	0.15	-0.20	-0.21	0.57	-0.41	6820	-6.0
9	O057	C	0.402	0.029	0.67	0.57	0.001	0.09	0.09	0.67	0.15	-0.21	-0.20	0.57	-0.41	6803	-8.8
10	O057	C	0.402	0.029	0.68	0.55	0.001	0.09	0.08	0.68	0.15	-0.23	-0.18	0.55	-0.40	6802	-6.8
11	O057	C	0.402	0.029	0.66	0.57	0.001	0.10	0.08	0.66	0.16	-0.22	-0.18	0.57	-0.41	6795	-5.7
12	O057	C	0.402	0.029	0.67	0.58	0.001	0.09	0.09	0.67	0.15	-0.23	-0.21	0.58	-0.40	6792	-6.4
13	O057	C	0.402	0.029	0.68	0.56	0.002	0.09	0.08	0.68	0.15	-0.21	-0.20	0.56	-0.41	6782	-9.2
14	O057	C	0.402	0.028	0.67	0.58	0.002	0.10	0.09	0.67	0.15	-0.22	-0.21	0.58	-0.40	6784	-9.9
15	O057	C	0.402	0.029	0.67	0.59	0.001	0.10	0.08	0.67	0.15	-0.24	-0.20	0.59	-0.41	6754	-8.8
16	O057	C	0.402	0.029	0.68	0.59	0.001	0.09	0.09	0.68	0.14	-0.24	-0.22	0.59	-0.40	6779	-8.7
17	O057	C	0.402	0.029	0.67	0.57	0.002	0.10	0.09	0.67	0.14	-0.23	-0.20	0.57	-0.40	6779	-8.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
18	O057	C	0.402	0.029	0.68	0.57	0.001	0.09	0.08	0.68	0.15	-0.23	-0.21	0.57	-0.39	6753	-5.6
19	O057	C	0.402	0.029	0.68	0.57	0.002	0.10	0.09	0.68	0.13	-0.24	-0.20	0.57	-0.40	6734	-6.6
20	O057	C	0.402	0.030	0.68	0.58	0.001	0.09	0.09	0.68	0.15	-0.24	-0.21	0.58	-0.40	6725	-5.1
1	O058	C	0.521	0.027	0.63	0.46	0.002	0.23	0.11	0.63	0.03	-0.24	-0.31	0.46	-0.12	7392	0.6
2	O058	C	0.521	0.029	0.65	0.46	0.003	0.22	0.10	0.65	0.03	-0.28	-0.27	0.46	-0.13	6809	2.3
3	O058	C	0.521	0.028	0.66	0.43	0.002	0.22	0.09	0.66	0.03	-0.26	-0.27	0.43	-0.11	6819	0.0
4	O058	C	0.521	0.028	0.66	0.45	0.002	0.21	0.10	0.66	0.03	-0.26	-0.28	0.45	-0.10	6794	0.5
5	O058	C	0.521	0.028	0.66	0.43	0.002	0.22	0.09	0.66	0.03	-0.25	-0.26	0.43	-0.14	6775	-1.9
6	O058	C	0.521	0.028	0.65	0.44	0.001	0.22	0.10	0.65	0.03	-0.25	-0.27	0.44	-0.13	6795	-1.0
7	O058	C	0.521	0.028	0.65	0.46	0.002	0.23	0.09	0.65	0.03	-0.29	-0.25	0.46	-0.13	6791	-2.6
8	O058	C	0.521	0.028	0.66	0.46	0.002	0.21	0.10	0.66	0.03	-0.27	-0.26	0.46	-0.15	6820	-1.6
9	O058	C	0.521	0.028	0.65	0.45	0.002	0.23	0.09	0.65	0.03	-0.28	-0.26	0.45	-0.11	6803	-1.8
10	O058	C	0.521	0.028	0.67	0.46	0.002	0.21	0.09	0.67	0.03	-0.29	-0.26	0.46	-0.12	6802	-3.6
11	O058	C	0.521	0.028	0.65	0.46	0.001	0.22	0.10	0.65	0.03	-0.27	-0.27	0.46	-0.14	6795	-0.8
12	O058	C	0.521	0.029	0.65	0.46	0.001	0.22	0.10	0.65	0.03	-0.27	-0.26	0.46	-0.16	6792	-0.6
13	O058	C	0.521	0.028	0.66	0.46	0.003	0.23	0.09	0.66	0.02	-0.28	-0.25	0.46	-0.13	6782	-3.0
14	O058	C	0.521	0.028	0.65	0.43	0.001	0.22	0.10	0.65	0.03	-0.26	-0.25	0.43	-0.11	6784	-1.5
15	O058	C	0.521	0.029	0.67	0.45	0.001	0.22	0.09	0.67	0.02	-0.28	-0.27	0.45	-0.11	6754	-2.0
16	O058	C	0.521	0.029	0.68	0.45	0.002	0.21	0.09	0.68	0.03	-0.27	-0.24	0.45	-0.15	6779	-1.3
17	O058	C	0.521	0.028	0.65	0.45	0.003	0.22	0.10	0.65	0.03	-0.25	-0.28	0.45	-0.13	6779	-1.9
18	O058	C	0.521	0.029	0.67	0.47	0.001	0.21	0.10	0.67	0.03	-0.29	-0.27	0.47	-0.14	6753	-2.5
19	O058	C	0.521	0.029	0.66	0.42	0.001	0.22	0.10	0.66	0.03	-0.24	-0.27	0.42	-0.11	6734	3.2
20	O058	C	0.521	0.029	0.67	0.44	0.001	0.21	0.09	0.67	0.03	-0.26	-0.27	0.44	-0.11	6725	1.6
1	O059	D	0.757	0.027	0.60	0.52	0.001	0.08	0.07	0.25	0.60	-0.22	-0.22	-0.32	0.52	7392	-5.3
2	O059	D	0.757	0.028	0.62	0.53	0.001	0.07	0.06	0.25	0.62	-0.22	-0.21	-0.33	0.53	6809	-6.2
3	O059	D	0.757	0.028	0.61	0.52	0.001	0.07	0.07	0.26	0.61	-0.20	-0.20	-0.35	0.52	6819	-7.8
4	O059	D	0.757	0.028	0.61	0.52	0.002	0.07	0.07	0.25	0.61	-0.23	-0.19	-0.32	0.52	6794	-6.4
5	O059	D	0.757	0.027	0.62	0.51	0.002	0.07	0.07	0.24	0.62	-0.21	-0.22	-0.31	0.51	6775	-7.3
6	O059	D	0.757	0.027	0.61	0.52	0.001	0.08	0.06	0.25	0.61	-0.22	-0.20	-0.33	0.52	6795	-8.3
7	O059	D	0.757	0.028	0.61	0.53	0.002	0.07	0.07	0.25	0.61	-0.20	-0.22	-0.33	0.53	6791	-8.2
8	O059	D	0.757	0.028	0.61	0.51	0.002	0.08	0.06	0.25	0.61	-0.23	-0.18	-0.31	0.51	6820	-5.4
9	O059	D	0.757	0.027	0.63	0.50	0.001	0.07	0.07	0.24	0.63	-0.21	-0.20	-0.32	0.50	6803	-7.5
10	O059	D	0.757	0.027	0.62	0.51	0.001	0.08	0.07	0.23	0.62	-0.22	-0.21	-0.31	0.51	6802	-7.8
11	O059	D	0.757	0.028	0.61	0.52	0.002	0.07	0.07	0.25	0.61	-0.21	-0.21	-0.33	0.52	6795	-6.2
12	O059	D	0.757	0.028	0.62	0.51	0.001	0.07	0.07	0.25	0.62	-0.22	-0.22	-0.32	0.51	6792	-6.2
13	O059	D	0.757	0.027	0.64	0.50	0.002	0.07	0.06	0.23	0.64	-0.20	-0.19	-0.33	0.50	6782	-8.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
14	O059	D	0.757	0.027	0.62	0.51	0.001	0.07	0.07	0.24	0.62	-0.23	-0.21	-0.32	0.51	6784	-9.0
15	O059	D	0.757	0.028	0.62	0.53	0.001	0.07	0.07	0.24	0.62	-0.21	-0.20	-0.35	0.53	6754	-7.8
16	O059	D	0.757	0.028	0.62	0.51	0.002	0.07	0.07	0.24	0.62	-0.22	-0.20	-0.32	0.51	6779	-5.9
17	O059	D	0.757	0.028	0.61	0.51	0.002	0.08	0.07	0.25	0.61	-0.21	-0.18	-0.33	0.51	6779	-6.1
18	O059	D	0.757	0.028	0.63	0.52	0.001	0.07	0.07	0.23	0.63	-0.23	-0.20	-0.33	0.52	6753	-7.2
19	O059	D	0.757	0.028	0.63	0.51	0.001	0.07	0.07	0.24	0.63	-0.21	-0.20	-0.32	0.51	6734	-5.2
20	O059	D	0.757	0.028	0.62	0.50	0.001	0.07	0.07	0.24	0.62	-0.23	-0.21	-0.30	0.50	6725	-3.8
1	O060	C	-1.129	0.038	0.85	0.52	0.001	0.04	0.05	0.85	0.06	-0.29	-0.20	0.52	-0.34	7392	-1.1
2	O060	C	-1.129	0.041	0.86	0.50	0.002	0.04	0.05	0.86	0.05	-0.27	-0.22	0.50	-0.31	6809	-1.5
3	O060	C	-1.129	0.041	0.87	0.49	0.001	0.04	0.05	0.87	0.04	-0.27	-0.24	0.49	-0.29	6819	-3.9
4	O060	C	-1.129	0.041	0.87	0.48	0.002	0.04	0.05	0.87	0.04	-0.26	-0.23	0.48	-0.28	6794	-1.2
5	O060	C	-1.129	0.041	0.87	0.48	0.001	0.03	0.05	0.87	0.04	-0.27	-0.23	0.48	-0.28	6775	-4.5
6	O060	C	-1.129	0.041	0.88	0.45	0.000	0.03	0.05	0.88	0.04	-0.28	-0.22	0.45	-0.25	6795	-2.6
7	O060	C	-1.129	0.041	0.88	0.47	0.002	0.04	0.04	0.88	0.04	-0.25	-0.22	0.47	-0.28	6791	-3.7
8	O060	C	-1.129	0.042	0.87	0.48	0.002	0.04	0.04	0.87	0.04	-0.30	-0.21	0.48	-0.27	6820	-2.1
9	O060	C	-1.129	0.041	0.88	0.46	0.001	0.03	0.04	0.88	0.04	-0.27	-0.21	0.46	-0.28	6803	-4.0
10	O060	C	-1.129	0.042	0.87	0.49	0.001	0.04	0.04	0.87	0.05	-0.27	-0.21	0.49	-0.31	6802	-2.6
11	O060	C	-1.129	0.042	0.87	0.50	0.001	0.04	0.05	0.87	0.05	-0.28	-0.23	0.50	-0.30	6795	-1.5
12	O060	C	-1.129	0.042	0.88	0.48	0.001	0.04	0.04	0.88	0.04	-0.29	-0.20	0.48	-0.29	6792	-3.7
13	O060	C	-1.129	0.041	0.88	0.47	0.002	0.03	0.04	0.88	0.04	-0.28	-0.21	0.47	-0.28	6782	-4.9
14	O060	C	-1.129	0.041	0.88	0.47	0.001	0.04	0.04	0.88	0.04	-0.29	-0.20	0.47	-0.28	6784	-3.7
15	O060	C	-1.129	0.042	0.88	0.47	0.001	0.03	0.04	0.88	0.04	-0.27	-0.21	0.47	-0.30	6754	-4.3
16	O060	C	-1.129	0.043	0.88	0.49	0.001	0.04	0.04	0.88	0.04	-0.28	-0.25	0.49	-0.26	6779	-3.7
17	O060	C	-1.129	0.041	0.87	0.47	0.002	0.04	0.05	0.87	0.04	-0.28	-0.21	0.47	-0.28	6779	-2.5
18	O060	C	-1.129	0.042	0.87	0.51	0.001	0.04	0.05	0.87	0.04	-0.29	-0.24	0.51	-0.31	6753	-3.4
19	O060	C	-1.129	0.043	0.87	0.47	0.001	0.04	0.04	0.87	0.04	-0.29	-0.20	0.47	-0.28	6734	-0.1
20	O060	C	-1.129	0.042	0.88	0.48	0.001	0.04	0.04	0.88	0.04	-0.30	-0.21	0.48	-0.28	6725	-1.0
1	O061	B	0.451	0.027	0.64	0.42	0.001	0.08	0.64	0.17	0.11	-0.26	0.42	-0.12	-0.26	7392	5.2
2	O061	B	0.451	0.029	0.67	0.39	0.002	0.08	0.67	0.16	0.09	-0.25	0.39	-0.12	-0.23	6809	6.4
3	O061	B	0.451	0.028	0.67	0.40	0.002	0.08	0.67	0.16	0.10	-0.26	0.40	-0.12	-0.24	6819	2.6
4	O061	B	0.451	0.029	0.67	0.39	0.002	0.07	0.67	0.16	0.10	-0.23	0.39	-0.12	-0.25	6794	4.5
5	O061	B	0.451	0.028	0.67	0.39	0.002	0.08	0.67	0.15	0.09	-0.27	0.39	-0.13	-0.21	6775	2.7
6	O061	B	0.451	0.028	0.66	0.39	0.000	0.07	0.66	0.16	0.10	-0.25	0.39	-0.12	-0.24	6795	3.7
7	O061	B	0.451	0.028	0.68	0.38	0.002	0.08	0.68	0.15	0.09	-0.27	0.38	-0.12	-0.21	6791	-3.1
8	O061	B	0.451	0.029	0.66	0.40	0.002	0.08	0.66	0.16	0.09	-0.26	0.40	-0.14	-0.22	6820	6.0
9	O061	B	0.451	0.028	0.67	0.39	0.001	0.08	0.67	0.15	0.10	-0.26	0.39	-0.11	-0.24	6803	2.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
10	O061	B	0.451	0.029	0.67	0.39	0.001	0.08	0.67	0.16	0.10	-0.25	0.39	-0.12	-0.23	6802	3.2
11	O061	B	0.451	0.029	0.67	0.40	0.002	0.08	0.67	0.16	0.10	-0.25	0.40	-0.12	-0.25	6795	4.1
12	O061	B	0.451	0.029	0.67	0.39	0.001	0.08	0.67	0.16	0.10	-0.26	0.39	-0.12	-0.22	6792	6.6
13	O061	B	0.451	0.028	0.68	0.36	0.002	0.07	0.68	0.16	0.10	-0.23	0.36	-0.10	-0.23	6782	3.7
14	O061	B	0.451	0.028	0.67	0.38	0.002	0.08	0.67	0.15	0.10	-0.26	0.38	-0.11	-0.22	6784	2.5
15	O061	B	0.451	0.029	0.68	0.37	0.002	0.07	0.68	0.15	0.09	-0.24	0.37	-0.11	-0.22	6754	5.1
16	O061	B	0.451	0.029	0.69	0.37	0.001	0.07	0.69	0.16	0.09	-0.25	0.37	-0.12	-0.23	6779	5.4
17	O061	B	0.451	0.029	0.67	0.39	0.003	0.07	0.67	0.16	0.09	-0.24	0.39	-0.12	-0.23	6779	4.8
18	O061	B	0.451	0.029	0.66	0.41	0.001	0.08	0.66	0.17	0.10	-0.26	0.41	-0.16	-0.21	6753	5.0
19	O061	B	0.451	0.029	0.67	0.38	0.002	0.08	0.67	0.16	0.09	-0.24	0.38	-0.15	-0.19	6734	6.6
20	O061	B	0.451	0.029	0.66	0.38	0.001	0.07	0.66	0.16	0.10	-0.24	0.38	-0.11	-0.24	6725	9.2
1	O062	B	-0.222	0.031	0.76	0.41	0.001	0.07	0.76	0.10	0.07	-0.22	0.41	-0.24	-0.18	7392	1.6
2	O062	B	-0.222	0.033	0.77	0.41	0.002	0.07	0.77	0.09	0.07	-0.21	0.41	-0.26	-0.16	6809	2.3
3	O062	B	-0.222	0.032	0.77	0.42	0.001	0.07	0.77	0.10	0.06	-0.22	0.42	-0.25	-0.19	6819	-0.3
4	O062	B	-0.222	0.032	0.77	0.40	0.001	0.07	0.77	0.09	0.07	-0.22	0.40	-0.23	-0.17	6794	2.4
5	O062	B	-0.222	0.032	0.78	0.40	0.001	0.06	0.78	0.09	0.07	-0.21	0.40	-0.23	-0.18	6775	-1.8
6	O062	B	-0.222	0.032	0.78	0.40	0.001	0.07	0.78	0.09	0.07	-0.22	0.40	-0.24	-0.17	6795	-1.0
7	O062	B	-0.222	0.032	0.77	0.40	0.002	0.07	0.77	0.10	0.06	-0.21	0.40	-0.24	-0.15	6791	-0.0
8	O062	B	-0.222	0.033	0.78	0.39	0.002	0.07	0.78	0.08	0.07	-0.19	0.39	-0.23	-0.19	6820	1.5
9	O062	B	-0.222	0.032	0.78	0.39	0.001	0.06	0.78	0.09	0.06	-0.22	0.39	-0.24	-0.15	6803	-0.1
10	O062	B	-0.222	0.033	0.78	0.41	0.001	0.07	0.78	0.09	0.06	-0.22	0.41	-0.24	-0.18	6802	-0.3
11	O062	B	-0.222	0.033	0.77	0.40	0.001	0.07	0.77	0.09	0.07	-0.21	0.40	-0.24	-0.18	6795	2.4
12	O062	B	-0.222	0.033	0.78	0.41	0.001	0.07	0.78	0.09	0.07	-0.22	0.41	-0.22	-0.20	6792	1.0
13	O062	B	-0.222	0.032	0.78	0.40	0.002	0.06	0.78	0.09	0.07	-0.21	0.40	-0.24	-0.16	6782	0.2
14	O062	B	-0.222	0.032	0.78	0.42	0.002	0.07	0.78	0.09	0.06	-0.23	0.42	-0.24	-0.18	6784	-1.8
15	O062	B	-0.222	0.033	0.79	0.38	0.001	0.06	0.79	0.09	0.07	-0.19	0.38	-0.23	-0.17	6754	-0.0
16	O062	B	-0.222	0.033	0.77	0.40	0.002	0.07	0.77	0.09	0.06	-0.21	0.40	-0.23	-0.18	6779	2.3
17	O062	B	-0.222	0.032	0.78	0.39	0.002	0.06	0.78	0.09	0.07	-0.21	0.39	-0.22	-0.17	6779	0.4
18	O062	B	-0.222	0.033	0.77	0.41	0.001	0.07	0.77	0.10	0.06	-0.20	0.41	-0.26	-0.17	6753	1.6
19	O062	B	-0.222	0.033	0.77	0.40	0.002	0.07	0.77	0.09	0.07	-0.20	0.40	-0.23	-0.20	6734	3.8
20	O062	B	-0.222	0.033	0.78	0.43	0.001	0.07	0.78	0.09	0.07	-0.23	0.43	-0.25	-0.18	6725	1.3
1	O094	C	0.653	0.027	0.68	0.50	0.002	0.09	0.15	0.68	0.07	-0.31	-0.25	0.50	-0.18	7392	-7.7
2	O094	C	0.653	0.028	0.63	0.47	0.002	0.13	0.15	0.63	0.08	-0.29	-0.23	0.47	-0.15	6809	0.5
3	O094	C	0.653	0.028	0.63	0.47	0.002	0.13	0.15	0.63	0.09	-0.28	-0.24	0.47	-0.14	6819	-1.8
4	O094	C	0.653	0.028	0.62	0.47	0.003	0.14	0.14	0.62	0.10	-0.28	-0.24	0.47	-0.15	6794	-1.9
5	O094	C	0.653	0.028	0.63	0.49	0.002	0.13	0.15	0.63	0.09	-0.30	-0.23	0.49	-0.17	6775	-5.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
6	O094	C	0.653	0.028	0.61	0.46	0.002	0.13	0.16	0.61	0.10	-0.28	-0.23	0.46	-0.15	6795	-1.5
7	O094	C	0.653	0.028	0.61	0.47	0.002	0.13	0.16	0.61	0.10	-0.29	-0.23	0.47	-0.16	6791	-1.2
8	O094	C	0.653	0.028	0.63	0.47	0.002	0.13	0.15	0.63	0.10	-0.30	-0.22	0.47	-0.14	6820	0.0
9	O094	C	0.653	0.028	0.63	0.47	0.001	0.12	0.16	0.63	0.09	-0.28	-0.24	0.47	-0.16	6803	-3.2
10	O094	C	0.653	0.028	0.64	0.47	0.002	0.12	0.16	0.64	0.08	-0.28	-0.23	0.47	-0.16	6802	-2.8
11	O094	C	0.653	0.028	0.64	0.48	0.002	0.12	0.16	0.64	0.08	-0.30	-0.25	0.48	-0.14	6795	-2.8
12	O094	C	0.653	0.028	0.64	0.47	0.001	0.12	0.16	0.64	0.08	-0.28	-0.26	0.47	-0.14	6792	-1.2
13	O094	C	0.653	0.028	0.63	0.46	0.003	0.13	0.15	0.63	0.09	-0.26	-0.25	0.46	-0.15	6782	-2.9
14	O094	C	0.653	0.027	0.63	0.46	0.002	0.14	0.15	0.63	0.09	-0.28	-0.23	0.46	-0.15	6784	-3.4
15	O094	C	0.653	0.028	0.64	0.45	0.002	0.12	0.15	0.64	0.09	-0.28	-0.23	0.45	-0.14	6754	-1.2
16	O094	C	0.653	0.028	0.64	0.46	0.002	0.13	0.15	0.64	0.09	-0.30	-0.21	0.46	-0.16	6779	0.1
17	O094	C	0.653	0.028	0.62	0.47	0.003	0.13	0.16	0.62	0.08	-0.27	-0.23	0.47	-0.16	6779	-1.2
18	O094	C	0.653	0.028	0.69	0.50	0.002	0.10	0.15	0.69	0.07	-0.30	-0.26	0.50	-0.20	6753	-7.0
19	O094	C	0.653	0.028	0.63	0.47	0.003	0.13	0.15	0.63	0.09	-0.27	-0.24	0.47	-0.16	6734	-1.0
20	O094	C	0.653	0.029	0.62	0.46	0.001	0.13	0.16	0.62	0.09	-0.26	-0.23	0.46	-0.16	6725	2.4
1	O095	C	-0.463	0.032	0.80	0.36	0.001	0.03	0.11	0.80	0.06	-0.16	-0.14	0.36	-0.30	7392	4.8
2	O095	C	-0.463	0.035	0.81	0.33	0.001	0.02	0.12	0.81	0.05	-0.16	-0.12	0.33	-0.28	6809	9.2
3	O095	C	-0.463	0.034	0.84	0.33	0.001	0.03	0.09	0.84	0.04	-0.22	-0.11	0.33	-0.26	6819	-0.9
4	O095	C	-0.463	0.034	0.84	0.35	0.001	0.02	0.09	0.84	0.05	-0.19	-0.15	0.35	-0.25	6794	-1.3
5	O095	C	-0.463	0.034	0.84	0.33	0.001	0.03	0.09	0.84	0.04	-0.18	-0.15	0.33	-0.25	6775	-2.5
6	O095	C	-0.463	0.034	0.84	0.34	0.000	0.02	0.09	0.84	0.04	-0.18	-0.14	0.34	-0.28	6795	-2.5
7	O095	C	-0.463	0.034	0.82	0.32	0.001	0.03	0.10	0.82	0.05	-0.17	-0.12	0.32	-0.25	6791	-3.4
8	O095	C	-0.463	0.035	0.83	0.29	0.002	0.02	0.11	0.83	0.04	-0.18	-0.10	0.29	-0.23	6820	6.2
9	O095	C	-0.463	0.034	0.82	0.28	0.001	0.02	0.12	0.82	0.04	-0.14	-0.10	0.28	-0.26	6803	5.8
10	O095	C	-0.463	0.034	0.79	0.30	0.001	0.03	0.14	0.79	0.05	-0.17	-0.11	0.30	-0.26	6802	9.9
11	O095	C	-0.463	0.035	0.80	0.34	0.001	0.03	0.12	0.80	0.06	-0.17	-0.13	0.34	-0.28	6795	6.6
12	O095	C	-0.463	0.035	0.80	0.32	0.001	0.03	0.12	0.80	0.05	-0.19	-0.11	0.32	-0.27	6792	9.4
13	O095	C	-0.463	0.034	0.82	0.31	0.002	0.03	0.11	0.82	0.05	-0.18	-0.12	0.31	-0.23	6782	4.2
14	O095	C	-0.463	0.034	0.82	0.33	0.002	0.02	0.11	0.82	0.05	-0.17	-0.14	0.33	-0.26	6784	-1.8
15	O095	C	-0.463	0.034	0.81	0.32	0.002	0.02	0.12	0.81	0.05	-0.17	-0.12	0.32	-0.27	6754	6.4
16	O095	C	-0.463	0.035	0.81	0.33	0.001	0.02	0.12	0.81	0.05	-0.17	-0.12	0.33	-0.28	6779	7.5
17	O095	C	-0.463	0.034	0.80	0.31	0.002	0.02	0.12	0.80	0.06	-0.17	-0.09	0.31	-0.28	6779	7.1
18	O095	C	-0.463	0.035	0.80	0.33	0.001	0.03	0.12	0.80	0.05	-0.20	-0.10	0.33	-0.29	6753	7.9
19	O095	C	-0.463	0.035	0.81	0.31	0.002	0.02	0.12	0.81	0.05	-0.16	-0.11	0.31	-0.28	6734	7.5
20	O095	C	-0.463	0.035	0.81	0.34	0.001	0.02	0.11	0.81	0.05	-0.18	-0.13	0.34	-0.27	6725	5.0
1	O096	D	0.383	0.028	0.66	0.48	0.001	0.11	0.16	0.07	0.66	-0.28	-0.29	-0.13	0.48	7392	-1.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
2	O096	D	0.383	0.029	0.71	0.47	0.002	0.09	0.14	0.06	0.71	-0.27	-0.31	-0.11	0.47	6809	-2.9
3	O096	D	0.383	0.029	0.68	0.49	0.002	0.10	0.16	0.06	0.68	-0.30	-0.30	-0.10	0.49	6819	-3.5
4	O096	D	0.383	0.029	0.68	0.47	0.002	0.10	0.16	0.06	0.68	-0.26	-0.31	-0.11	0.47	6794	-1.0
5	O096	D	0.383	0.029	0.69	0.48	0.001	0.10	0.16	0.06	0.69	-0.27	-0.31	-0.12	0.48	6775	-5.2
6	O096	D	0.383	0.029	0.69	0.49	0.001	0.09	0.16	0.06	0.69	-0.28	-0.31	-0.12	0.49	6795	-4.8
7	O096	D	0.383	0.029	0.68	0.47	0.001	0.10	0.16	0.06	0.68	-0.29	-0.30	-0.09	0.47	6791	-2.0
8	O096	D	0.383	0.029	0.69	0.48	0.001	0.09	0.16	0.06	0.69	-0.27	-0.30	-0.12	0.48	6820	-2.3
9	O096	D	0.383	0.029	0.69	0.46	0.001	0.10	0.15	0.06	0.69	-0.28	-0.29	-0.09	0.46	6803	-2.8
10	O096	D	0.383	0.029	0.67	0.48	0.001	0.09	0.17	0.06	0.67	-0.30	-0.31	-0.09	0.48	6802	-1.3
11	O096	D	0.383	0.029	0.69	0.48	0.001	0.10	0.15	0.07	0.69	-0.28	-0.31	-0.11	0.48	6795	-2.8
12	O096	D	0.383	0.029	0.68	0.47	0.001	0.10	0.15	0.06	0.68	-0.29	-0.30	-0.10	0.47	6792	-1.2
13	O096	D	0.383	0.029	0.72	0.49	0.002	0.08	0.14	0.06	0.72	-0.27	-0.31	-0.13	0.49	6782	-8.3
14	O096	D	0.383	0.028	0.68	0.49	0.001	0.10	0.16	0.06	0.68	-0.30	-0.29	-0.12	0.49	6784	-5.4
15	O096	D	0.383	0.029	0.70	0.47	0.002	0.09	0.15	0.06	0.70	-0.28	-0.29	-0.12	0.47	6754	-3.0
16	O096	D	0.383	0.029	0.69	0.49	0.002	0.09	0.16	0.06	0.69	-0.30	-0.30	-0.12	0.49	6779	-2.7
17	O096	D	0.383	0.029	0.68	0.47	0.002	0.10	0.16	0.06	0.68	-0.26	-0.30	-0.10	0.47	6779	-1.2
18	O096	D	0.383	0.029	0.69	0.45	0.001	0.09	0.15	0.07	0.69	-0.26	-0.29	-0.10	0.45	6753	-1.1
19	O096	D	0.383	0.029	0.68	0.48	0.002	0.10	0.16	0.06	0.68	-0.28	-0.30	-0.12	0.48	6734	-0.8
20	O096	D	0.383	0.030	0.68	0.47	0.001	0.10	0.16	0.06	0.68	-0.27	-0.29	-0.13	0.47	6725	1.0
1	O097	A	-2.306	0.058	0.94	0.39	0.001	0.94	0.04	0.01	0.02	0.39	-0.28	-0.13	-0.20	7392	-2.4
2	O097	A	-2.306	0.063	0.95	0.34	0.002	0.95	0.03	0.01	0.01	0.34	-0.23	-0.14	-0.17	6809	-1.7
3	O097	A	-2.306	0.063	0.96	0.31	0.001	0.96	0.03	0.00	0.01	0.31	-0.24	-0.10	-0.13	6819	-4.4
4	O097	A	-2.306	0.064	0.95	0.34	0.002	0.95	0.03	0.01	0.01	0.34	-0.26	-0.11	-0.14	6794	-1.8
5	O097	A	-2.306	0.063	0.96	0.34	0.001	0.96	0.03	0.01	0.01	0.34	-0.24	-0.13	-0.16	6775	-3.5
6	O097	A	-2.306	0.063	0.96	0.33	0.000	0.96	0.03	0.01	0.01	0.33	-0.24	-0.14	-0.17	6795	-3.8
7	O097	A	-2.306	0.063	0.96	0.31	0.001	0.96	0.03	0.01	0.01	0.31	-0.25	-0.09	-0.13	6791	-2.6
8	O097	A	-2.306	0.065	0.96	0.31	0.001	0.96	0.02	0.01	0.01	0.31	-0.20	-0.14	-0.16	6820	-2.2
9	O097	A	-2.306	0.064	0.95	0.29	0.001	0.95	0.03	0.01	0.01	0.29	-0.21	-0.10	-0.14	6803	-0.6
10	O097	A	-2.306	0.066	0.96	0.33	0.001	0.96	0.03	0.01	0.01	0.33	-0.25	-0.14	-0.14	6802	-2.9
11	O097	A	-2.306	0.065	0.96	0.34	0.001	0.96	0.03	0.01	0.01	0.34	-0.25	-0.14	-0.16	6795	-2.7
12	O097	A	-2.306	0.066	0.96	0.35	0.001	0.96	0.03	0.01	0.01	0.35	-0.26	-0.12	-0.17	6792	-3.0
13	O097	A	-2.306	0.064	0.96	0.33	0.002	0.96	0.03	0.01	0.01	0.33	-0.25	-0.12	-0.12	6782	-2.7
14	O097	A	-2.306	0.064	0.95	0.35	0.001	0.95	0.03	0.01	0.01	0.35	-0.24	-0.16	-0.16	6784	-3.2
15	O097	A	-2.306	0.064	0.95	0.35	0.001	0.95	0.03	0.01	0.01	0.35	-0.24	-0.15	-0.16	6754	-2.7
16	O097	A	-2.306	0.066	0.96	0.32	0.001	0.96	0.03	0.01	0.01	0.32	-0.24	-0.13	-0.14	6779	-3.0
17	O097	A	-2.306	0.063	0.96	0.31	0.002	0.96	0.03	0.01	0.01	0.31	-0.22	-0.10	-0.15	6779	-3.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
18	O097	A	-2.306	0.065	0.96	0.36	0.001	0.96	0.03	0.01	0.01	0.36	-0.28	-0.12	-0.17	6753	-3.1
19	O097	A	-2.306	0.067	0.96	0.33	0.001	0.96	0.03	0.01	0.01	0.33	-0.24	-0.12	-0.14	6734	-2.8
20	O097	A	-2.306	0.066	0.96	0.33	0.001	0.96	0.03	0.01	0.01	0.33	-0.24	-0.12	-0.16	6725	-1.4
1	O098	D	0.405	0.028	0.65	0.57	0.001	0.12	0.13	0.09	0.65	-0.31	-0.26	-0.27	0.57	7392	-9.4
2	O098	D	0.405	0.029	0.67	0.56	0.002	0.12	0.12	0.08	0.67	-0.29	-0.29	-0.24	0.56	6809	-6.9
3	O098	D	0.405	0.029	0.68	0.55	0.001	0.11	0.13	0.08	0.68	-0.29	-0.28	-0.26	0.55	6819	-9.9
4	O098	D	0.405	0.029	0.66	0.57	0.002	0.12	0.13	0.08	0.66	-0.29	-0.30	-0.25	0.57	6794	-8.3
5	O098	D	0.405	0.029	0.68	0.54	0.002	0.10	0.13	0.08	0.68	-0.25	-0.30	-0.26	0.54	6775	-9.9
6	O098	D	0.405	0.029	0.68	0.54	0.001	0.12	0.13	0.08	0.68	-0.27	-0.29	-0.27	0.54	6795	-9.9
7	O098	D	0.405	0.029	0.68	0.54	0.002	0.11	0.12	0.08	0.68	-0.26	-0.28	-0.27	0.54	6791	-9.2
8	O098	D	0.405	0.029	0.68	0.53	0.001	0.12	0.12	0.08	0.68	-0.26	-0.28	-0.25	0.53	6820	-6.6
9	O098	D	0.405	0.029	0.68	0.54	0.001	0.12	0.12	0.08	0.68	-0.29	-0.28	-0.24	0.54	6803	-9.3
10	O098	D	0.405	0.029	0.67	0.54	0.002	0.11	0.13	0.09	0.67	-0.26	-0.30	-0.25	0.54	6802	-7.9
11	O098	D	0.405	0.029	0.67	0.53	0.002	0.11	0.13	0.08	0.67	-0.26	-0.28	-0.25	0.53	6795	-6.3
12	O098	D	0.405	0.029	0.68	0.54	0.001	0.11	0.13	0.08	0.68	-0.26	-0.30	-0.25	0.54	6792	-6.8
13	O098	D	0.405	0.029	0.69	0.55	0.001	0.11	0.12	0.08	0.69	-0.28	-0.28	-0.27	0.55	6782	-9.9
14	O098	D	0.405	0.028	0.69	0.53	0.002	0.11	0.12	0.08	0.69	-0.24	-0.30	-0.24	0.53	6784	-9.9
15	O098	D	0.405	0.029	0.68	0.55	0.002	0.12	0.13	0.08	0.68	-0.28	-0.29	-0.24	0.55	6754	-7.9
16	O098	D	0.405	0.029	0.69	0.53	0.001	0.12	0.12	0.08	0.69	-0.27	-0.28	-0.24	0.53	6779	-6.7
17	O098	D	0.405	0.029	0.68	0.53	0.002	0.12	0.13	0.08	0.68	-0.26	-0.28	-0.24	0.53	6779	-7.5
18	O098	D	0.405	0.029	0.68	0.56	0.001	0.11	0.12	0.09	0.68	-0.28	-0.29	-0.27	0.56	6753	-8.9
19	O098	D	0.405	0.029	0.68	0.55	0.002	0.11	0.12	0.08	0.68	-0.26	-0.29	-0.27	0.55	6734	-6.4
20	O098	D	0.405	0.030	0.67	0.56	0.001	0.12	0.12	0.09	0.67	-0.25	-0.31	-0.27	0.56	6725	-5.8
1	O099	C	0.821	0.026	0.56	0.48	0.001	0.33	0.09	0.56	0.02	-0.24	-0.39	0.48	-0.11	7392	0.9
2	O099	C	0.821	0.028	0.58	0.46	0.001	0.33	0.08	0.58	0.01	-0.24	-0.37	0.46	-0.10	6809	4.0
3	O099	C	0.821	0.027	0.59	0.47	0.001	0.33	0.06	0.59	0.01	-0.27	-0.36	0.47	-0.13	6819	-1.5
4	O099	C	0.821	0.028	0.60	0.47	0.003	0.33	0.06	0.60	0.01	-0.29	-0.32	0.47	-0.11	6794	-0.4
5	O099	C	0.821	0.027	0.65	0.49	0.001	0.29	0.05	0.65	0.02	-0.33	-0.32	0.49	-0.12	6775	-7.5
6	O099	C	0.821	0.027	0.60	0.46	0.000	0.33	0.06	0.60	0.02	-0.28	-0.33	0.46	-0.13	6795	-0.8
7	O099	C	0.821	0.027	0.70	0.47	0.002	0.23	0.05	0.70	0.02	-0.30	-0.33	0.47	-0.11	6791	-7.7
8	O099	C	0.821	0.027	0.60	0.46	0.001	0.33	0.06	0.60	0.01	-0.29	-0.33	0.46	-0.09	6820	1.0
9	O099	C	0.821	0.027	0.62	0.48	0.001	0.32	0.05	0.62	0.02	-0.32	-0.30	0.48	-0.12	6803	-4.2
10	O099	C	0.821	0.027	0.61	0.48	0.001	0.32	0.06	0.61	0.01	-0.29	-0.36	0.48	-0.12	6802	-3.0
11	O099	C	0.821	0.027	0.59	0.47	0.001	0.33	0.06	0.59	0.01	-0.29	-0.35	0.47	-0.10	6795	-1.1
12	O099	C	0.821	0.028	0.62	0.46	0.001	0.30	0.06	0.62	0.02	-0.27	-0.35	0.46	-0.10	6792	-1.2
13	O099	C	0.821	0.027	0.60	0.44	0.002	0.33	0.05	0.60	0.02	-0.28	-0.30	0.44	-0.10	6782	0.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
14	O099	C	0.821	0.027	0.59	0.45	0.001	0.33	0.06	0.59	0.01	-0.26	-0.35	0.45	-0.11	6784	-2.5
15	O099	C	0.821	0.028	0.60	0.47	0.001	0.32	0.06	0.60	0.01	-0.28	-0.33	0.47	-0.12	6754	-0.7
16	O099	C	0.821	0.028	0.60	0.48	0.002	0.33	0.05	0.60	0.02	-0.31	-0.33	0.48	-0.09	6779	-1.0
17	O099	C	0.821	0.028	0.70	0.49	0.002	0.24	0.04	0.70	0.02	-0.32	-0.31	0.49	-0.14	6779	-8.1
18	O099	C	0.821	0.028	0.62	0.47	0.001	0.31	0.06	0.62	0.01	-0.28	-0.36	0.47	-0.10	6753	-0.6
19	O099	C	0.821	0.028	0.60	0.48	0.001	0.32	0.06	0.60	0.02	-0.29	-0.34	0.48	-0.09	6734	-0.9
20	O099	C	0.821	0.028	0.61	0.47	0.001	0.32	0.06	0.61	0.02	-0.28	-0.35	0.47	-0.13	6725	1.6
1	O100	A	0.314	0.028	0.70	0.48	0.002	0.70	0.14	0.11	0.05	0.48	-0.20	-0.28	-0.28	7392	-2.9
2	O100	A	0.314	0.030	0.68	0.46	0.002	0.68	0.16	0.12	0.04	0.46	-0.18	-0.27	-0.28	6809	2.3
3	O100	A	0.314	0.029	0.69	0.45	0.001	0.69	0.15	0.11	0.05	0.45	-0.18	-0.26	-0.27	6819	-0.3
4	O100	A	0.314	0.029	0.68	0.44	0.002	0.68	0.15	0.12	0.05	0.44	-0.16	-0.28	-0.26	6794	1.8
5	O100	A	0.314	0.029	0.69	0.45	0.001	0.69	0.16	0.11	0.04	0.45	-0.19	-0.27	-0.25	6775	-0.3
6	O100	A	0.314	0.029	0.72	0.45	0.001	0.72	0.14	0.10	0.04	0.45	-0.19	-0.28	-0.25	6795	-4.0
7	O100	A	0.314	0.029	0.69	0.45	0.002	0.69	0.15	0.11	0.04	0.45	-0.18	-0.28	-0.26	6791	-1.2
8	O100	A	0.314	0.029	0.72	0.46	0.002	0.72	0.15	0.09	0.04	0.46	-0.20	-0.26	-0.27	6820	-2.5
9	O100	A	0.314	0.029	0.68	0.44	0.001	0.68	0.16	0.11	0.04	0.44	-0.17	-0.27	-0.25	6803	0.5
10	O100	A	0.314	0.029	0.69	0.48	0.002	0.69	0.15	0.12	0.04	0.48	-0.20	-0.28	-0.28	6802	-1.3
11	O100	A	0.314	0.029	0.69	0.45	0.001	0.69	0.15	0.11	0.04	0.45	-0.17	-0.29	-0.26	6795	0.9
12	O100	A	0.314	0.030	0.69	0.44	0.001	0.69	0.16	0.11	0.04	0.44	-0.18	-0.26	-0.28	6792	2.3
13	O100	A	0.314	0.029	0.68	0.45	0.002	0.68	0.16	0.12	0.04	0.45	-0.18	-0.26	-0.26	6782	-0.3
14	O100	A	0.314	0.029	0.70	0.45	0.001	0.70	0.15	0.11	0.05	0.45	-0.18	-0.26	-0.27	6784	-1.9
15	O100	A	0.314	0.029	0.69	0.45	0.002	0.69	0.15	0.11	0.04	0.45	-0.17	-0.28	-0.27	6754	0.5
16	O100	A	0.314	0.030	0.69	0.45	0.001	0.69	0.15	0.11	0.04	0.45	-0.20	-0.27	-0.25	6779	2.1
17	O100	A	0.314	0.029	0.68	0.44	0.002	0.68	0.15	0.12	0.05	0.44	-0.16	-0.27	-0.25	6779	2.0
18	O100	A	0.314	0.030	0.70	0.44	0.001	0.70	0.15	0.11	0.05	0.44	-0.17	-0.26	-0.28	6753	1.8
19	O100	A	0.314	0.030	0.69	0.43	0.002	0.69	0.16	0.12	0.04	0.43	-0.17	-0.26	-0.24	6734	4.2
20	O100	A	0.314	0.030	0.70	0.45	0.001	0.70	0.16	0.11	0.04	0.45	-0.18	-0.28	-0.27	6725	3.7
1	O101	C	-0.507	0.033	0.80	0.46	0.001	0.08	0.09	0.80	0.03	-0.22	-0.31	0.46	-0.18	7392	-0.6
2	O101	C	-0.507	0.035	0.81	0.43	0.002	0.08	0.08	0.81	0.03	-0.21	-0.28	0.43	-0.18	6809	0.3
3	O101	C	-0.507	0.034	0.82	0.40	0.001	0.07	0.08	0.82	0.03	-0.20	-0.28	0.40	-0.15	6819	-2.2
4	O101	C	-0.507	0.035	0.81	0.42	0.002	0.08	0.08	0.81	0.03	-0.20	-0.29	0.42	-0.17	6794	-0.8
5	O101	C	-0.507	0.034	0.81	0.45	0.001	0.08	0.08	0.81	0.03	-0.22	-0.31	0.45	-0.18	6775	-3.2
6	O101	C	-0.507	0.034	0.81	0.42	0.000	0.08	0.08	0.81	0.03	-0.20	-0.29	0.42	-0.17	6795	-1.3
7	O101	C	-0.507	0.034	0.82	0.40	0.002	0.08	0.08	0.82	0.03	-0.17	-0.29	0.40	-0.16	6791	-1.3
8	O101	C	-0.507	0.035	0.81	0.44	0.001	0.08	0.08	0.81	0.03	-0.21	-0.31	0.44	-0.17	6820	-0.7
9	O101	C	-0.507	0.034	0.83	0.41	0.001	0.07	0.08	0.83	0.03	-0.19	-0.30	0.41	-0.16	6803	-4.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
10	O101	C	-0.507	0.035	0.81	0.43	0.001	0.08	0.08	0.81	0.03	-0.22	-0.27	0.43	-0.18	6802	-0.6
11	O101	C	-0.507	0.035	0.81	0.42	0.001	0.08	0.08	0.81	0.03	-0.22	-0.27	0.42	-0.17	6795	-0.6
12	O101	C	-0.507	0.035	0.82	0.44	0.001	0.08	0.07	0.82	0.02	-0.27	-0.26	0.44	-0.14	6792	-1.6
13	O101	C	-0.507	0.034	0.82	0.41	0.002	0.08	0.07	0.82	0.02	-0.22	-0.27	0.41	-0.15	6782	-2.6
14	O101	C	-0.507	0.034	0.81	0.43	0.001	0.08	0.09	0.81	0.03	-0.21	-0.29	0.43	-0.16	6784	-2.4
15	O101	C	-0.507	0.035	0.81	0.44	0.002	0.08	0.08	0.81	0.03	-0.21	-0.31	0.44	-0.16	6754	-1.8
16	O101	C	-0.507	0.035	0.80	0.42	0.001	0.10	0.08	0.80	0.03	-0.21	-0.29	0.42	-0.15	6779	2.8
17	O101	C	-0.507	0.034	0.81	0.43	0.002	0.08	0.09	0.81	0.03	-0.23	-0.28	0.43	-0.15	6779	-2.1
18	O101	C	-0.507	0.035	0.81	0.43	0.001	0.08	0.08	0.81	0.03	-0.21	-0.30	0.43	-0.16	6753	0.1
19	O101	C	-0.507	0.035	0.82	0.42	0.001	0.08	0.07	0.82	0.02	-0.21	-0.29	0.42	-0.16	6734	-1.1
20	O101	C	-0.507	0.036	0.81	0.43	0.001	0.08	0.08	0.81	0.03	-0.19	-0.31	0.43	-0.17	6725	1.1
1	O102	A	0.125	0.029	0.72	0.45	0.002	0.72	0.21	0.05	0.03	0.45	-0.35	-0.16	-0.14	7392	-0.4
2	O102	A	0.125	0.031	0.73	0.46	0.001	0.73	0.20	0.04	0.02	0.46	-0.38	-0.15	-0.12	6809	0.3
3	O102	A	0.125	0.030	0.74	0.44	0.001	0.74	0.20	0.04	0.02	0.44	-0.36	-0.14	-0.13	6819	-2.3
4	O102	A	0.125	0.030	0.72	0.43	0.002	0.72	0.21	0.05	0.03	0.43	-0.38	-0.11	-0.09	6794	2.6
5	O102	A	0.125	0.030	0.73	0.45	0.002	0.73	0.20	0.04	0.03	0.45	-0.33	-0.16	-0.17	6775	-0.7
6	O102	A	0.125	0.030	0.73	0.44	0.001	0.73	0.20	0.04	0.02	0.44	-0.36	-0.13	-0.14	6795	-2.1
7	O102	A	0.125	0.030	0.73	0.46	0.002	0.73	0.21	0.04	0.02	0.46	-0.37	-0.15	-0.13	6791	-2.1
8	O102	A	0.125	0.030	0.73	0.44	0.001	0.73	0.20	0.04	0.02	0.44	-0.36	-0.13	-0.13	6820	-0.3
9	O102	A	0.125	0.030	0.73	0.46	0.001	0.73	0.21	0.04	0.02	0.46	-0.38	-0.12	-0.15	6803	-2.7
10	O102	A	0.125	0.030	0.73	0.47	0.001	0.73	0.20	0.04	0.03	0.47	-0.38	-0.14	-0.14	6802	-2.5
11	O102	A	0.125	0.030	0.73	0.45	0.001	0.73	0.22	0.04	0.02	0.45	-0.37	-0.13	-0.14	6795	-0.2
12	O102	A	0.125	0.031	0.74	0.47	0.001	0.74	0.20	0.04	0.02	0.47	-0.38	-0.15	-0.13	6792	-1.6
13	O102	A	0.125	0.030	0.74	0.45	0.002	0.74	0.20	0.04	0.02	0.45	-0.37	-0.13	-0.14	6782	-3.4
14	O102	A	0.125	0.030	0.75	0.44	0.002	0.75	0.19	0.04	0.03	0.44	-0.34	-0.15	-0.17	6784	-5.0
15	O102	A	0.125	0.030	0.75	0.44	0.002	0.75	0.19	0.04	0.03	0.44	-0.35	-0.15	-0.11	6754	-1.9
16	O102	A	0.125	0.031	0.74	0.45	0.001	0.74	0.19	0.04	0.03	0.45	-0.37	-0.14	-0.13	6779	-1.5
17	O102	A	0.125	0.030	0.73	0.46	0.002	0.73	0.20	0.05	0.02	0.46	-0.37	-0.14	-0.12	6779	-1.8
18	O102	A	0.125	0.031	0.74	0.45	0.002	0.74	0.20	0.04	0.03	0.45	-0.37	-0.14	-0.14	6753	-0.1
19	O102	A	0.125	0.031	0.74	0.45	0.001	0.74	0.20	0.04	0.03	0.45	-0.37	-0.15	-0.11	6734	-0.2
20	O102	A	0.125	0.031	0.74	0.45	0.001	0.74	0.19	0.04	0.03	0.45	-0.38	-0.13	-0.12	6725	0.9
1	O103	D	1.014	0.026	0.57	0.53	0.001	0.13	0.27	0.03	0.57	-0.35	-0.30	-0.08	0.53	7392	-8.1
2	O103	D	1.014	0.028	0.57	0.50	0.002	0.13	0.27	0.03	0.57	-0.37	-0.24	-0.10	0.50	6809	-3.4
3	O103	D	1.014	0.027	0.57	0.51	0.001	0.11	0.29	0.03	0.57	-0.34	-0.28	-0.09	0.51	6819	-6.5
4	O103	D	1.014	0.027	0.56	0.51	0.002	0.13	0.28	0.03	0.56	-0.37	-0.25	-0.07	0.51	6794	-5.4
5	O103	D	1.014	0.027	0.56	0.54	0.001	0.13	0.29	0.03	0.56	-0.36	-0.27	-0.12	0.54	6775	-9.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	O103	D	1.014	0.027	0.58	0.53	0.001	0.13	0.27	0.03	0.58	-0.36	-0.28	-0.09	0.53	6795	-9.9
7	O103	D	1.014	0.027	0.57	0.53	0.002	0.13	0.27	0.03	0.57	-0.35	-0.28	-0.10	0.53	6791	-8.7
8	O103	D	1.014	0.027	0.59	0.53	0.001	0.13	0.25	0.03	0.59	-0.35	-0.28	-0.10	0.53	6820	-9.5
9	O103	D	1.014	0.027	0.59	0.52	0.001	0.11	0.28	0.02	0.59	-0.34	-0.30	-0.08	0.52	6803	-9.2
10	O103	D	1.014	0.027	0.58	0.51	0.001	0.13	0.27	0.03	0.58	-0.34	-0.27	-0.11	0.51	6802	-8.0
11	O103	D	1.014	0.027	0.57	0.51	0.001	0.12	0.28	0.03	0.57	-0.38	-0.25	-0.07	0.51	6795	-6.7
12	O103	D	1.014	0.027	0.57	0.51	0.001	0.12	0.28	0.03	0.57	-0.33	-0.28	-0.12	0.51	6792	-6.5
13	O103	D	1.014	0.027	0.58	0.51	0.002	0.11	0.28	0.03	0.58	-0.33	-0.27	-0.12	0.51	6782	-8.5
14	O103	D	1.014	0.027	0.58	0.51	0.002	0.12	0.27	0.03	0.58	-0.34	-0.27	-0.10	0.51	6784	-9.0
15	O103	D	1.014	0.027	0.58	0.53	0.001	0.11	0.28	0.02	0.58	-0.33	-0.32	-0.07	0.53	6754	-8.4
16	O103	D	1.014	0.027	0.58	0.51	0.001	0.11	0.28	0.03	0.58	-0.34	-0.28	-0.09	0.51	6779	-6.3
17	O103	D	1.014	0.027	0.56	0.51	0.002	0.12	0.29	0.03	0.56	-0.34	-0.27	-0.09	0.51	6779	-5.9
18	O103	D	1.014	0.027	0.57	0.52	0.001	0.12	0.28	0.03	0.57	-0.34	-0.29	-0.09	0.52	6753	-6.1
19	O103	D	1.014	0.027	0.57	0.51	0.001	0.12	0.29	0.02	0.57	-0.34	-0.28	-0.08	0.51	6734	-5.5
20	O103	D	1.014	0.028	0.62	0.54	0.001	0.13	0.22	0.03	0.62	-0.37	-0.30	-0.08	0.54	6725	-8.5
1	O104	C	-0.506	0.033	0.79	0.53	0.003	0.05	0.06	0.79	0.10	-0.22	-0.22	0.53	-0.36	7392	-3.7
2	O104	C	-0.506	0.035	0.81	0.52	0.002	0.04	0.05	0.81	0.10	-0.23	-0.21	0.52	-0.36	6809	-4.4
3	O104	C	-0.506	0.034	0.82	0.49	0.001	0.04	0.05	0.82	0.09	-0.20	-0.21	0.49	-0.35	6819	-6.2
4	O104	C	-0.506	0.035	0.81	0.48	0.002	0.04	0.06	0.81	0.09	-0.19	-0.22	0.48	-0.33	6794	-3.2
5	O104	C	-0.506	0.034	0.82	0.47	0.001	0.04	0.05	0.82	0.09	-0.23	-0.22	0.47	-0.30	6775	-6.6
6	O104	C	-0.506	0.034	0.81	0.49	0.001	0.04	0.05	0.81	0.09	-0.20	-0.23	0.49	-0.35	6795	-6.5
7	O104	C	-0.506	0.034	0.81	0.48	0.002	0.04	0.05	0.81	0.09	-0.19	-0.22	0.48	-0.34	6791	-4.3
8	O104	C	-0.506	0.035	0.82	0.49	0.002	0.05	0.05	0.82	0.09	-0.23	-0.21	0.49	-0.33	6820	-3.7
9	O104	C	-0.506	0.034	0.82	0.47	0.001	0.04	0.05	0.82	0.08	-0.20	-0.22	0.47	-0.32	6803	-5.7
10	O104	C	-0.506	0.035	0.82	0.49	0.001	0.05	0.05	0.82	0.09	-0.23	-0.21	0.49	-0.33	6802	-4.4
11	O104	C	-0.506	0.035	0.82	0.48	0.002	0.04	0.05	0.82	0.09	-0.22	-0.20	0.48	-0.33	6795	-4.6
12	O104	C	-0.506	0.035	0.81	0.49	0.001	0.04	0.05	0.81	0.09	-0.21	-0.22	0.49	-0.34	6792	-3.6
13	O104	C	-0.506	0.034	0.82	0.50	0.002	0.04	0.06	0.82	0.09	-0.21	-0.23	0.50	-0.34	6782	-6.1
14	O104	C	-0.506	0.034	0.82	0.49	0.001	0.04	0.05	0.82	0.09	-0.22	-0.22	0.49	-0.32	6784	-7.0
15	O104	C	-0.506	0.035	0.82	0.49	0.002	0.04	0.05	0.82	0.09	-0.20	-0.24	0.49	-0.33	6754	-4.6
16	O104	C	-0.506	0.035	0.82	0.48	0.001	0.04	0.05	0.82	0.09	-0.20	-0.22	0.48	-0.33	6779	-4.3
17	O104	C	-0.506	0.034	0.82	0.49	0.002	0.04	0.05	0.82	0.09	-0.21	-0.23	0.49	-0.32	6779	-5.6
18	O104	C	-0.506	0.035	0.82	0.49	0.001	0.04	0.05	0.82	0.09	-0.21	-0.22	0.49	-0.34	6753	-3.5
19	O104	C	-0.506	0.035	0.81	0.49	0.002	0.04	0.05	0.81	0.09	-0.21	-0.22	0.49	-0.34	6734	-2.6
20	O104	C	-0.506	0.036	0.82	0.51	0.001	0.04	0.05	0.82	0.09	-0.23	-0.23	0.51	-0.34	6725	-4.1
1	O105	A	0.727	0.027	0.59	0.50	0.002	0.59	0.10	0.13	0.18	0.50	-0.21	-0.21	-0.28	7392	-3.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
2	O105	A	0.727	0.028	0.60	0.50	0.003	0.60	0.10	0.12	0.18	0.50	-0.21	-0.23	-0.26	6809	-1.1
3	O105	A	0.727	0.028	0.61	0.47	0.002	0.61	0.09	0.12	0.17	0.47	-0.20	-0.21	-0.27	6819	-2.7
4	O105	A	0.727	0.028	0.60	0.49	0.002	0.60	0.09	0.12	0.18	0.49	-0.21	-0.19	-0.29	6794	-2.8
5	O105	A	0.727	0.028	0.62	0.51	0.002	0.62	0.10	0.13	0.16	0.51	-0.23	-0.23	-0.27	6775	-7.3
6	O105	A	0.727	0.028	0.61	0.50	0.002	0.61	0.09	0.12	0.17	0.50	-0.23	-0.22	-0.26	6795	-6.1
7	O105	A	0.727	0.028	0.61	0.49	0.002	0.61	0.09	0.13	0.17	0.49	-0.20	-0.21	-0.28	6791	-4.7
8	O105	A	0.727	0.028	0.62	0.49	0.002	0.62	0.09	0.12	0.17	0.49	-0.23	-0.21	-0.27	6820	-4.1
9	O105	A	0.727	0.027	0.63	0.50	0.002	0.63	0.08	0.12	0.17	0.50	-0.24	-0.22	-0.28	6803	-7.2
10	O105	A	0.727	0.028	0.62	0.49	0.002	0.62	0.09	0.13	0.17	0.49	-0.21	-0.23	-0.26	6802	-4.7
11	O105	A	0.727	0.028	0.64	0.51	0.002	0.64	0.09	0.13	0.14	0.51	-0.21	-0.23	-0.31	6795	-7.6
12	O105	A	0.727	0.028	0.62	0.48	0.001	0.62	0.08	0.12	0.17	0.48	-0.22	-0.22	-0.26	6792	-2.4
13	O105	A	0.727	0.027	0.61	0.48	0.003	0.61	0.09	0.13	0.18	0.48	-0.20	-0.21	-0.27	6782	-4.7
14	O105	A	0.727	0.027	0.61	0.48	0.003	0.61	0.09	0.13	0.16	0.48	-0.23	-0.21	-0.25	6784	-5.0
15	O105	A	0.727	0.028	0.61	0.49	0.003	0.61	0.09	0.12	0.17	0.49	-0.22	-0.21	-0.26	6754	-3.0
16	O105	A	0.727	0.028	0.63	0.45	0.003	0.63	0.08	0.12	0.17	0.45	-0.21	-0.19	-0.25	6779	-0.4
17	O105	A	0.727	0.028	0.62	0.49	0.003	0.62	0.08	0.13	0.16	0.49	-0.19	-0.22	-0.28	6779	-4.1
18	O105	A	0.727	0.028	0.62	0.50	0.001	0.62	0.08	0.12	0.17	0.50	-0.23	-0.21	-0.29	6753	-4.6
19	O105	A	0.727	0.028	0.61	0.50	0.002	0.61	0.09	0.12	0.18	0.50	-0.21	-0.22	-0.28	6734	-3.3
20	O105	A	0.727	0.028	0.63	0.50	0.002	0.63	0.08	0.13	0.15	0.50	-0.21	-0.22	-0.30	6725	-3.7
1	O106	C	-0.109	0.030	0.73	0.39	0.001	0.02	0.23	0.73	0.02	-0.23	-0.27	0.39	-0.17	7392	6.2
2	O106	C	-0.109	0.032	0.78	0.39	0.002	0.02	0.19	0.78	0.01	-0.19	-0.29	0.39	-0.15	6809	-1.5
3	O106	C	-0.109	0.031	0.78	0.37	0.001	0.02	0.19	0.78	0.01	-0.17	-0.27	0.37	-0.18	6819	-0.8
4	O106	C	-0.109	0.032	0.76	0.35	0.001	0.02	0.21	0.76	0.01	-0.19	-0.26	0.35	-0.14	6794	5.4
5	O106	C	-0.109	0.031	0.76	0.36	0.001	0.02	0.21	0.76	0.02	-0.19	-0.25	0.36	-0.19	6775	4.2
6	O106	C	-0.109	0.031	0.79	0.37	0.001	0.02	0.18	0.79	0.01	-0.17	-0.29	0.37	-0.13	6795	-2.4
7	O106	C	-0.109	0.031	0.77	0.35	0.001	0.02	0.20	0.77	0.01	-0.20	-0.25	0.35	-0.15	6791	4.1
8	O106	C	-0.109	0.032	0.80	0.38	0.002	0.02	0.18	0.80	0.01	-0.18	-0.28	0.38	-0.17	6820	-0.5
9	O106	C	-0.109	0.031	0.76	0.36	0.001	0.02	0.21	0.76	0.01	-0.17	-0.27	0.36	-0.17	6803	3.2
10	O106	C	-0.109	0.032	0.76	0.37	0.002	0.02	0.21	0.76	0.01	-0.21	-0.26	0.37	-0.16	6802	4.2
11	O106	C	-0.109	0.032	0.77	0.35	0.002	0.02	0.20	0.77	0.02	-0.19	-0.25	0.35	-0.19	6795	5.8
12	O106	C	-0.109	0.032	0.76	0.37	0.001	0.02	0.21	0.76	0.01	-0.21	-0.26	0.37	-0.17	6792	5.8
13	O106	C	-0.109	0.031	0.76	0.34	0.002	0.02	0.21	0.76	0.01	-0.18	-0.25	0.34	-0.16	6782	4.7
14	O106	C	-0.109	0.031	0.77	0.40	0.002	0.02	0.20	0.77	0.01	-0.19	-0.30	0.40	-0.16	6784	-1.4
15	O106	C	-0.109	0.032	0.79	0.39	0.002	0.02	0.18	0.79	0.01	-0.19	-0.29	0.39	-0.17	6754	-0.8
16	O106	C	-0.109	0.032	0.80	0.37	0.002	0.01	0.17	0.80	0.01	-0.17	-0.28	0.37	-0.16	6779	-0.4
17	O106	C	-0.109	0.031	0.76	0.37	0.002	0.02	0.20	0.76	0.02	-0.18	-0.26	0.37	-0.20	6779	3.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
18	O106	C	-0.109	0.032	0.76	0.37	0.001	0.02	0.21	0.76	0.01	-0.18	-0.27	0.37	-0.20	6753	5.8
19	O106	C	-0.109	0.032	0.76	0.35	0.002	0.02	0.21	0.76	0.01	-0.18	-0.25	0.35	-0.16	6734	7.7
20	O106	C	-0.109	0.032	0.77	0.35	0.001	0.02	0.20	0.77	0.01	-0.21	-0.24	0.35	-0.18	6725	6.4
1	O107	A	-0.753	0.035	0.81	0.51	0.002	0.81	0.06	0.05	0.07	0.51	-0.21	-0.24	-0.36	7392	-1.9
2	O107	A	-0.753	0.037	0.83	0.49	0.002	0.83	0.06	0.06	0.06	0.49	-0.19	-0.22	-0.37	6809	0.0
3	O107	A	-0.753	0.037	0.84	0.47	0.002	0.84	0.05	0.05	0.06	0.47	-0.16	-0.23	-0.35	6819	-2.2
4	O107	A	-0.753	0.037	0.84	0.46	0.002	0.84	0.06	0.05	0.05	0.46	-0.18	-0.24	-0.32	6794	-1.3
5	O107	A	-0.753	0.036	0.84	0.47	0.001	0.84	0.05	0.05	0.06	0.47	-0.17	-0.24	-0.33	6775	-3.4
6	O107	A	-0.753	0.036	0.84	0.47	0.001	0.84	0.05	0.05	0.06	0.47	-0.14	-0.24	-0.37	6795	-2.4
7	O107	A	-0.753	0.037	0.84	0.49	0.002	0.84	0.05	0.05	0.06	0.49	-0.17	-0.26	-0.35	6791	-3.8
8	O107	A	-0.753	0.037	0.84	0.47	0.002	0.84	0.05	0.05	0.06	0.47	-0.18	-0.22	-0.34	6820	-1.1
9	O107	A	-0.753	0.037	0.85	0.46	0.002	0.85	0.05	0.05	0.06	0.46	-0.16	-0.25	-0.32	6803	-4.0
10	O107	A	-0.753	0.037	0.84	0.48	0.001	0.84	0.05	0.05	0.06	0.48	-0.16	-0.25	-0.37	6802	-2.2
11	O107	A	-0.753	0.038	0.84	0.46	0.002	0.84	0.05	0.05	0.06	0.46	-0.16	-0.23	-0.34	6795	-0.5
12	O107	A	-0.753	0.038	0.83	0.47	0.001	0.83	0.06	0.05	0.06	0.47	-0.17	-0.24	-0.33	6792	0.3
13	O107	A	-0.753	0.037	0.85	0.49	0.002	0.85	0.05	0.05	0.05	0.49	-0.18	-0.25	-0.34	6782	-5.1
14	O107	A	-0.753	0.037	0.83	0.48	0.001	0.83	0.06	0.05	0.06	0.48	-0.21	-0.23	-0.34	6784	-3.5
15	O107	A	-0.753	0.037	0.86	0.46	0.001	0.86	0.05	0.05	0.05	0.46	-0.16	-0.25	-0.34	6754	-4.4
16	O107	A	-0.753	0.038	0.84	0.47	0.002	0.84	0.06	0.05	0.06	0.47	-0.16	-0.23	-0.36	6779	-0.5
17	O107	A	-0.753	0.037	0.84	0.49	0.002	0.84	0.05	0.05	0.06	0.49	-0.17	-0.24	-0.36	6779	-2.2
18	O107	A	-0.753	0.038	0.84	0.48	0.001	0.84	0.05	0.05	0.06	0.48	-0.16	-0.26	-0.36	6753	-1.3
19	O107	A	-0.753	0.038	0.83	0.46	0.002	0.83	0.05	0.05	0.06	0.46	-0.17	-0.23	-0.33	6734	0.1
20	O107	A	-0.753	0.038	0.84	0.48	0.001	0.84	0.05	0.05	0.06	0.48	-0.17	-0.25	-0.35	6725	-0.0
1	O108	C	0.156	0.029	0.70	0.30	0.002	0.05	0.06	0.70	0.20	-0.32	-0.31	0.30	0.01	7392	9.9
2	O108	C	0.156	0.030	0.73	0.28	0.002	0.04	0.05	0.73	0.18	-0.29	-0.29	0.28	-0.01	6809	9.9
3	O108	C	0.156	0.030	0.72	0.29	0.002	0.04	0.05	0.72	0.19	-0.29	-0.30	0.29	-0.02	6819	9.9
4	O108	C	0.156	0.030	0.72	0.28	0.002	0.04	0.05	0.72	0.19	-0.30	-0.29	0.28	0.00	6794	9.9
5	O108	C	0.156	0.030	0.73	0.31	0.002	0.04	0.05	0.73	0.18	-0.31	-0.27	0.31	-0.04	6775	-8.8
6	O108	C	0.156	0.030	0.72	0.29	0.001	0.04	0.05	0.72	0.18	-0.31	-0.30	0.29	0.01	6795	9.9
7	O108	C	0.156	0.030	0.72	0.29	0.002	0.04	0.05	0.72	0.19	-0.29	-0.28	0.29	-0.02	6791	9.9
8	O108	C	0.156	0.030	0.72	0.28	0.002	0.04	0.05	0.72	0.19	-0.32	-0.28	0.28	0.01	6820	9.9
9	O108	C	0.156	0.030	0.71	0.27	0.002	0.04	0.05	0.71	0.20	-0.31	-0.30	0.27	0.00	6803	9.9
10	O108	C	0.156	0.030	0.74	0.31	0.001	0.04	0.05	0.74	0.17	-0.29	-0.31	0.31	-0.03	6802	7.9
11	O108	C	0.156	0.030	0.73	0.32	0.001	0.04	0.05	0.73	0.18	-0.30	-0.30	0.32	-0.03	6795	9.9
12	O108	C	0.156	0.030	0.71	0.29	0.002	0.04	0.05	0.71	0.19	-0.32	-0.30	0.29	0.01	6792	9.9
13	O108	C	0.156	0.030	0.75	0.30	0.002	0.03	0.05	0.75	0.17	-0.28	-0.29	0.30	-0.03	6782	-6.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
14	O108	C	0.156	0.030	0.73	0.28	0.001	0.04	0.05	0.73	0.18	-0.30	-0.28	0.28	-0.00	6784	-9.9
15	O108	C	0.156	0.030	0.73	0.30	0.002	0.04	0.05	0.73	0.18	-0.31	-0.29	0.30	-0.02	6754	9.9
16	O108	C	0.156	0.031	0.72	0.28	0.003	0.04	0.05	0.72	0.19	-0.30	-0.29	0.28	0.00	6779	9.9
17	O108	C	0.156	0.030	0.73	0.28	0.003	0.04	0.05	0.73	0.18	-0.31	-0.27	0.28	0.01	6779	-9.9
18	O108	C	0.156	0.030	0.73	0.27	0.001	0.03	0.05	0.73	0.18	-0.29	-0.31	0.27	0.00	6753	9.9
19	O108	C	0.156	0.031	0.74	0.28	0.001	0.04	0.05	0.74	0.17	-0.29	-0.31	0.28	0.01	6734	9.9
20	O108	C	0.156	0.031	0.74	0.30	0.001	0.04	0.04	0.74	0.18	-0.32	-0.29	0.30	-0.03	6725	9.9
1	O109	C	0.464	0.027	0.65	0.50	0.002	0.22	0.06	0.65	0.07	-0.38	-0.16	0.50	-0.16	7392	-2.8
2	O109	C	0.464	0.029	0.66	0.51	0.003	0.22	0.06	0.66	0.06	-0.39	-0.16	0.51	-0.14	6809	-2.1
3	O109	C	0.464	0.028	0.66	0.50	0.001	0.22	0.06	0.66	0.07	-0.39	-0.15	0.50	-0.15	6819	-4.0
4	O109	C	0.464	0.029	0.70	0.52	0.002	0.18	0.05	0.70	0.06	-0.41	-0.15	0.52	-0.16	6794	-9.3
5	O109	C	0.464	0.028	0.66	0.49	0.002	0.22	0.06	0.66	0.06	-0.38	-0.16	0.49	-0.13	6775	-4.6
6	O109	C	0.464	0.028	0.66	0.50	0.001	0.22	0.06	0.66	0.07	-0.39	-0.15	0.50	-0.17	6795	-5.1
7	O109	C	0.464	0.028	0.66	0.50	0.002	0.22	0.06	0.66	0.07	-0.39	-0.14	0.50	-0.16	6791	-5.1
8	O109	C	0.464	0.029	0.67	0.49	0.002	0.22	0.06	0.67	0.06	-0.39	-0.16	0.49	-0.14	6820	-2.8
9	O109	C	0.464	0.028	0.66	0.51	0.002	0.23	0.05	0.66	0.06	-0.41	-0.12	0.51	-0.17	6803	-6.4
10	O109	C	0.464	0.028	0.71	0.51	0.002	0.18	0.05	0.71	0.06	-0.41	-0.14	0.51	-0.16	6802	-9.4
11	O109	C	0.464	0.029	0.66	0.50	0.002	0.22	0.06	0.66	0.06	-0.40	-0.16	0.50	-0.13	6795	-3.3
12	O109	C	0.464	0.029	0.69	0.52	0.001	0.20	0.06	0.69	0.06	-0.42	-0.15	0.52	-0.15	6792	-7.0
13	O109	C	0.464	0.028	0.67	0.49	0.002	0.22	0.06	0.67	0.06	-0.36	-0.19	0.49	-0.13	6782	-4.3
14	O109	C	0.464	0.028	0.66	0.51	0.002	0.22	0.06	0.66	0.06	-0.40	-0.16	0.51	-0.15	6784	-6.4
15	O109	C	0.464	0.029	0.73	0.50	0.002	0.17	0.05	0.73	0.06	-0.40	-0.16	0.50	-0.16	6754	-9.9
16	O109	C	0.464	0.029	0.67	0.49	0.001	0.21	0.06	0.67	0.07	-0.36	-0.19	0.49	-0.14	6779	-2.3
17	O109	C	0.464	0.029	0.66	0.50	0.003	0.22	0.05	0.66	0.06	-0.40	-0.14	0.50	-0.14	6779	-4.6
18	O109	C	0.464	0.029	0.68	0.51	0.002	0.22	0.05	0.68	0.06	-0.39	-0.17	0.51	-0.17	6753	-5.3
19	O109	C	0.464	0.029	0.72	0.52	0.002	0.18	0.05	0.72	0.05	-0.41	-0.17	0.52	-0.15	6734	-8.0
20	O109	C	0.464	0.029	0.66	0.51	0.001	0.22	0.06	0.66	0.07	-0.40	-0.16	0.51	-0.15	6725	-1.0
1	O110	B	0.320	0.028	0.67	0.44	0.002	0.09	0.67	0.06	0.18	-0.23	0.44	-0.22	-0.23	7392	1.2
2	O110	B	0.320	0.030	0.69	0.44	0.002	0.08	0.69	0.05	0.18	-0.20	0.44	-0.21	-0.25	6809	3.8
3	O110	B	0.320	0.029	0.68	0.44	0.001	0.08	0.68	0.06	0.18	-0.21	0.44	-0.22	-0.24	6819	0.6
4	O110	B	0.320	0.029	0.69	0.45	0.002	0.07	0.69	0.05	0.18	-0.21	0.45	-0.21	-0.26	6794	0.1
5	O110	B	0.320	0.029	0.69	0.45	0.002	0.08	0.69	0.05	0.18	-0.21	0.45	-0.24	-0.24	6775	-2.1
6	O110	B	0.320	0.029	0.71	0.47	0.001	0.08	0.71	0.05	0.16	-0.22	0.47	-0.26	-0.25	6795	-5.1
7	O110	B	0.320	0.029	0.69	0.44	0.002	0.08	0.69	0.06	0.17	-0.19	0.44	-0.23	-0.25	6791	-0.9
8	O110	B	0.320	0.029	0.69	0.45	0.001	0.07	0.69	0.05	0.19	-0.19	0.45	-0.22	-0.27	6820	1.2
9	O110	B	0.320	0.029	0.68	0.44	0.002	0.08	0.68	0.06	0.18	-0.19	0.44	-0.22	-0.26	6803	0.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
10	O110	B	0.320	0.029	0.70	0.44	0.001	0.08	0.70	0.05	0.18	-0.19	0.44	-0.23	-0.26	6802	-1.0
11	O110	B	0.320	0.029	0.69	0.44	0.001	0.08	0.69	0.05	0.18	-0.20	0.44	-0.24	-0.25	6795	0.7
12	O110	B	0.320	0.030	0.68	0.44	0.002	0.08	0.68	0.06	0.19	-0.20	0.44	-0.24	-0.24	6792	2.8
13	O110	B	0.320	0.029	0.68	0.43	0.002	0.08	0.68	0.06	0.18	-0.19	0.43	-0.24	-0.23	6782	0.5
14	O110	B	0.320	0.029	0.69	0.44	0.002	0.07	0.69	0.06	0.18	-0.20	0.44	-0.23	-0.25	6784	-1.5
15	O110	B	0.320	0.029	0.69	0.44	0.002	0.08	0.69	0.05	0.18	-0.21	0.44	-0.20	-0.26	6754	-0.1
16	O110	B	0.320	0.030	0.74	0.47	0.002	0.08	0.74	0.05	0.13	-0.23	0.47	-0.22	-0.27	6779	-5.3
17	O110	B	0.320	0.029	0.68	0.44	0.002	0.08	0.68	0.06	0.18	-0.21	0.44	-0.23	-0.23	6779	0.5
18	O110	B	0.320	0.030	0.69	0.44	0.001	0.08	0.69	0.05	0.17	-0.21	0.44	-0.25	-0.23	6753	1.2
19	O110	B	0.320	0.030	0.69	0.43	0.002	0.08	0.69	0.05	0.18	-0.20	0.43	-0.22	-0.23	6734	4.1
20	O110	B	0.320	0.030	0.72	0.46	0.001	0.07	0.72	0.05	0.16	-0.22	0.46	-0.21	-0.28	6725	-2.0
1	O111	D	-0.146	0.030	0.75	0.44	0.002	0.11	0.10	0.04	0.75	-0.21	-0.24	-0.25	0.44	7392	-0.5
2	O111	D	-0.146	0.032	0.77	0.44	0.003	0.11	0.09	0.04	0.77	-0.23	-0.23	-0.24	0.44	6809	0.2
3	O111	D	-0.146	0.032	0.77	0.45	0.001	0.10	0.10	0.04	0.77	-0.22	-0.25	-0.26	0.45	6819	-2.4
4	O111	D	-0.146	0.032	0.75	0.44	0.003	0.11	0.10	0.04	0.75	-0.22	-0.24	-0.24	0.44	6794	0.7
5	O111	D	-0.146	0.031	0.76	0.43	0.002	0.11	0.10	0.04	0.76	-0.22	-0.23	-0.23	0.43	6775	-1.1
6	O111	D	-0.146	0.031	0.77	0.44	0.001	0.10	0.09	0.04	0.77	-0.22	-0.25	-0.25	0.44	6795	-3.0
7	O111	D	-0.146	0.032	0.77	0.45	0.002	0.10	0.09	0.03	0.77	-0.24	-0.25	-0.22	0.45	6791	-3.8
8	O111	D	-0.146	0.032	0.77	0.45	0.002	0.10	0.09	0.04	0.77	-0.23	-0.23	-0.24	0.45	6820	-0.6
9	O111	D	-0.146	0.032	0.77	0.43	0.002	0.10	0.09	0.04	0.77	-0.23	-0.23	-0.23	0.43	6803	-2.4
10	O111	D	-0.146	0.032	0.78	0.43	0.002	0.09	0.09	0.04	0.78	-0.22	-0.22	-0.25	0.43	6802	-3.3
11	O111	D	-0.146	0.032	0.77	0.44	0.002	0.11	0.09	0.04	0.77	-0.25	-0.22	-0.23	0.44	6795	-0.3
12	O111	D	-0.146	0.032	0.79	0.42	0.002	0.09	0.09	0.03	0.79	-0.21	-0.24	-0.22	0.42	6792	-2.6
13	O111	D	-0.146	0.032	0.77	0.42	0.002	0.10	0.09	0.04	0.77	-0.20	-0.23	-0.25	0.42	6782	-1.0
14	O111	D	-0.146	0.031	0.76	0.45	0.002	0.11	0.09	0.04	0.76	-0.23	-0.24	-0.23	0.45	6784	-2.2
15	O111	D	-0.146	0.032	0.77	0.44	0.003	0.10	0.09	0.04	0.77	-0.23	-0.22	-0.25	0.44	6754	-1.5
16	O111	D	-0.146	0.032	0.77	0.43	0.002	0.10	0.08	0.04	0.77	-0.22	-0.21	-0.25	0.43	6779	0.3
17	O111	D	-0.146	0.032	0.76	0.45	0.003	0.11	0.09	0.04	0.76	-0.24	-0.24	-0.22	0.45	6779	-1.5
18	O111	D	-0.146	0.032	0.78	0.45	0.002	0.09	0.09	0.04	0.78	-0.23	-0.24	-0.25	0.45	6753	-1.9
19	O111	D	-0.146	0.032	0.76	0.42	0.002	0.10	0.10	0.04	0.76	-0.20	-0.24	-0.23	0.42	6734	1.7
20	O111	D	-0.146	0.033	0.77	0.44	0.002	0.10	0.09	0.04	0.77	-0.22	-0.23	-0.26	0.44	6725	0.2
1	O112	D	0.556	0.027	0.63	0.35	0.002	0.04	0.27	0.06	0.63	-0.22	-0.12	-0.30	0.35	7392	8.6
2	O112	D	0.556	0.029	0.64	0.36	0.002	0.04	0.27	0.04	0.64	-0.25	-0.15	-0.26	0.36	6809	9.9
3	O112	D	0.556	0.028	0.64	0.36	0.001	0.04	0.27	0.04	0.64	-0.25	-0.14	-0.29	0.36	6819	7.2
4	O112	D	0.556	0.028	0.65	0.35	0.003	0.04	0.27	0.04	0.65	-0.23	-0.15	-0.26	0.35	6794	7.3
5	O112	D	0.556	0.028	0.68	0.37	0.002	0.04	0.25	0.04	0.68	-0.23	-0.18	-0.27	0.37	6775	-1.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
6	O112	D	0.556	0.028	0.64	0.34	0.001	0.04	0.28	0.04	0.64	-0.20	-0.16	-0.27	0.34	6795	7.6
7	O112	D	0.556	0.028	0.65	0.35	0.002	0.04	0.26	0.04	0.65	-0.23	-0.15	-0.26	0.35	6791	6.2
8	O112	D	0.556	0.028	0.66	0.37	0.002	0.04	0.26	0.04	0.66	-0.22	-0.17	-0.27	0.37	6820	5.5
9	O112	D	0.556	0.028	0.70	0.38	0.003	0.03	0.23	0.03	0.70	-0.23	-0.21	-0.24	0.38	6803	-2.2
10	O112	D	0.556	0.028	0.66	0.35	0.001	0.04	0.26	0.04	0.66	-0.21	-0.16	-0.27	0.35	6802	4.9
11	O112	D	0.556	0.028	0.65	0.37	0.002	0.04	0.26	0.04	0.65	-0.22	-0.16	-0.29	0.37	6795	5.6
12	O112	D	0.556	0.028	0.64	0.34	0.001	0.04	0.28	0.04	0.64	-0.23	-0.14	-0.26	0.34	6792	9.6
13	O112	D	0.556	0.028	0.66	0.36	0.002	0.03	0.27	0.04	0.66	-0.22	-0.16	-0.27	0.36	6782	4.7
14	O112	D	0.556	0.028	0.65	0.34	0.002	0.04	0.27	0.04	0.65	-0.23	-0.13	-0.28	0.34	6784	5.5
15	O112	D	0.556	0.028	0.67	0.34	0.002	0.04	0.25	0.04	0.67	-0.23	-0.14	-0.27	0.34	6754	-6.0
16	O112	D	0.556	0.029	0.64	0.35	0.002	0.04	0.28	0.04	0.64	-0.23	-0.15	-0.26	0.35	6779	9.4
17	O112	D	0.556	0.028	0.65	0.36	0.003	0.04	0.27	0.04	0.65	-0.24	-0.15	-0.25	0.36	6779	7.2
18	O112	D	0.556	0.029	0.65	0.33	0.001	0.04	0.27	0.04	0.65	-0.20	-0.15	-0.26	0.33	6753	9.2
19	O112	D	0.556	0.029	0.66	0.33	0.002	0.04	0.27	0.04	0.66	-0.21	-0.15	-0.25	0.33	6734	9.9
20	O112	D	0.556	0.029	0.69	0.42	0.001	0.03	0.24	0.04	0.69	-0.22	-0.24	-0.28	0.42	6725	0.0
1	O113	B	-0.291	0.031	0.76	0.46	0.002	0.17	0.76	0.04	0.02	-0.37	0.46	-0.15	-0.16	7392	1.6
2	O113	B	-0.291	0.033	0.78	0.47	0.003	0.17	0.78	0.04	0.02	-0.39	0.47	-0.11	-0.17	6809	2.0
3	O113	B	-0.291	0.033	0.79	0.44	0.002	0.16	0.79	0.04	0.02	-0.35	0.44	-0.15	-0.15	6819	-0.4
4	O113	B	-0.291	0.033	0.78	0.44	0.002	0.17	0.78	0.04	0.01	-0.39	0.44	-0.10	-0.11	6794	2.1
5	O113	B	-0.291	0.032	0.79	0.44	0.002	0.16	0.79	0.04	0.01	-0.37	0.44	-0.14	-0.15	6775	-1.9
6	O113	B	-0.291	0.032	0.78	0.44	0.001	0.16	0.78	0.04	0.01	-0.36	0.44	-0.15	-0.15	6795	-0.1
7	O113	B	-0.291	0.033	0.79	0.43	0.002	0.16	0.79	0.04	0.02	-0.35	0.43	-0.13	-0.14	6791	-0.1
8	O113	B	-0.291	0.033	0.79	0.42	0.002	0.16	0.79	0.04	0.02	-0.35	0.42	-0.13	-0.13	6820	2.2
9	O113	B	-0.291	0.033	0.79	0.44	0.002	0.16	0.79	0.04	0.01	-0.37	0.44	-0.11	-0.16	6803	-1.7
10	O113	B	-0.291	0.033	0.79	0.46	0.001	0.16	0.79	0.04	0.02	-0.38	0.46	-0.14	-0.14	6802	-0.9
11	O113	B	-0.291	0.033	0.79	0.45	0.002	0.16	0.79	0.04	0.02	-0.37	0.45	-0.13	-0.16	6795	0.2
12	O113	B	-0.291	0.033	0.81	0.43	0.001	0.14	0.81	0.03	0.02	-0.36	0.43	-0.13	-0.14	6792	-2.1
13	O113	B	-0.291	0.033	0.80	0.44	0.002	0.15	0.80	0.04	0.01	-0.37	0.44	-0.13	-0.13	6782	-2.1
14	O113	B	-0.291	0.032	0.78	0.43	0.001	0.17	0.78	0.04	0.01	-0.35	0.43	-0.15	-0.14	6784	-0.8
15	O113	B	-0.291	0.033	0.79	0.43	0.002	0.15	0.79	0.04	0.02	-0.35	0.43	-0.14	-0.15	6754	0.8
16	O113	B	-0.291	0.034	0.79	0.44	0.002	0.15	0.79	0.04	0.02	-0.36	0.44	-0.13	-0.14	6779	1.8
17	O113	B	-0.291	0.033	0.78	0.45	0.002	0.17	0.78	0.04	0.01	-0.37	0.45	-0.15	-0.12	6779	0.6
18	O113	B	-0.291	0.033	0.79	0.42	0.001	0.17	0.79	0.03	0.01	-0.37	0.42	-0.11	-0.11	6753	1.9
19	O113	B	-0.291	0.034	0.80	0.42	0.001	0.15	0.80	0.04	0.01	-0.36	0.42	-0.12	-0.12	6734	1.7
20	O113	B	-0.291	0.034	0.78	0.45	0.001	0.17	0.78	0.04	0.01	-0.38	0.45	-0.12	-0.16	6725	2.6
1	O114	A	-0.720	0.034	0.80	0.49	0.002	0.80	0.08	0.09	0.03	0.49	-0.22	-0.31	-0.27	7392	1.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
2	O114	A	-0.720	0.037	0.83	0.49	0.002	0.83	0.07	0.07	0.03	0.49	-0.21	-0.30	-0.28	6809	1.7
3	O114	A	-0.720	0.036	0.83	0.48	0.002	0.83	0.07	0.07	0.03	0.48	-0.23	-0.29	-0.26	6819	-1.4
4	O114	A	-0.720	0.037	0.84	0.46	0.002	0.84	0.07	0.06	0.02	0.46	-0.21	-0.30	-0.24	6794	-0.7
5	O114	A	-0.720	0.036	0.84	0.46	0.002	0.84	0.07	0.07	0.03	0.46	-0.20	-0.31	-0.24	6775	-2.5
6	O114	A	-0.720	0.036	0.83	0.46	0.001	0.83	0.07	0.07	0.02	0.46	-0.21	-0.31	-0.23	6795	-0.3
7	O114	A	-0.720	0.036	0.83	0.47	0.002	0.83	0.07	0.08	0.03	0.47	-0.20	-0.31	-0.23	6791	1.1
8	O114	A	-0.720	0.037	0.85	0.46	0.002	0.85	0.05	0.07	0.02	0.46	-0.20	-0.31	-0.24	6820	-3.4
9	O114	A	-0.720	0.036	0.84	0.45	0.002	0.84	0.06	0.07	0.02	0.45	-0.19	-0.32	-0.22	6803	-1.5
10	O114	A	-0.720	0.037	0.84	0.47	0.002	0.84	0.06	0.07	0.03	0.47	-0.20	-0.32	-0.25	6802	-0.6
11	O114	A	-0.720	0.037	0.83	0.47	0.002	0.83	0.07	0.07	0.03	0.47	-0.23	-0.30	-0.25	6795	0.3
12	O114	A	-0.720	0.037	0.84	0.46	0.001	0.84	0.07	0.07	0.03	0.46	-0.20	-0.30	-0.24	6792	0.8
13	O114	A	-0.720	0.036	0.84	0.46	0.003	0.84	0.07	0.07	0.02	0.46	-0.20	-0.29	-0.25	6782	-1.5
14	O114	A	-0.720	0.036	0.83	0.48	0.002	0.83	0.07	0.08	0.03	0.48	-0.18	-0.32	-0.28	6784	-0.6
15	O114	A	-0.720	0.037	0.84	0.46	0.002	0.84	0.07	0.07	0.03	0.46	-0.21	-0.28	-0.26	6754	0.3
16	O114	A	-0.720	0.038	0.84	0.46	0.002	0.84	0.07	0.06	0.02	0.46	-0.21	-0.29	-0.25	6779	0.4
17	O114	A	-0.720	0.036	0.84	0.46	0.003	0.84	0.07	0.07	0.02	0.46	-0.21	-0.30	-0.24	6779	-0.0
18	O114	A	-0.720	0.037	0.84	0.47	0.002	0.84	0.07	0.07	0.03	0.47	-0.20	-0.31	-0.27	6753	2.4
19	O114	A	-0.720	0.038	0.84	0.47	0.003	0.84	0.07	0.07	0.02	0.47	-0.22	-0.31	-0.23	6734	1.8
20	O114	A	-0.720	0.038	0.84	0.47	0.001	0.84	0.06	0.07	0.02	0.47	-0.20	-0.33	-0.24	6725	0.7
1	O115	B	0.793	0.026	0.59	0.46	0.004	0.12	0.59	0.13	0.16	-0.20	0.46	-0.22	-0.23	7392	-0.5
2	O115	B	0.793	0.028	0.60	0.45	0.005	0.12	0.60	0.13	0.15	-0.19	0.45	-0.23	-0.22	6809	2.1
3	O115	B	0.793	0.027	0.61	0.47	0.004	0.12	0.61	0.13	0.15	-0.19	0.47	-0.23	-0.25	6819	-3.1
4	O115	B	0.793	0.028	0.61	0.46	0.004	0.11	0.61	0.13	0.14	-0.19	0.46	-0.23	-0.23	6794	-0.5
5	O115	B	0.793	0.027	0.61	0.46	0.005	0.12	0.61	0.12	0.15	-0.19	0.46	-0.22	-0.25	6775	-3.6
6	O115	B	0.793	0.027	0.61	0.48	0.003	0.11	0.61	0.13	0.15	-0.22	0.48	-0.24	-0.24	6795	-4.3
7	O115	B	0.793	0.027	0.60	0.46	0.004	0.12	0.60	0.12	0.15	-0.18	0.46	-0.23	-0.24	6791	-1.9
8	O115	B	0.793	0.028	0.61	0.45	0.003	0.11	0.61	0.13	0.15	-0.19	0.45	-0.22	-0.23	6820	-0.2
9	O115	B	0.793	0.027	0.61	0.45	0.004	0.11	0.61	0.14	0.15	-0.17	0.45	-0.24	-0.23	6803	-2.3
10	O115	B	0.793	0.027	0.61	0.46	0.003	0.11	0.61	0.12	0.15	-0.18	0.46	-0.22	-0.26	6802	-3.6
11	O115	B	0.793	0.028	0.60	0.46	0.004	0.12	0.60	0.13	0.15	-0.19	0.46	-0.21	-0.25	6795	-1.4
12	O115	B	0.793	0.028	0.61	0.45	0.003	0.11	0.61	0.13	0.15	-0.19	0.45	-0.24	-0.21	6792	-0.4
13	O115	B	0.793	0.027	0.61	0.47	0.004	0.11	0.61	0.13	0.14	-0.19	0.47	-0.24	-0.23	6782	-3.4
14	O115	B	0.793	0.027	0.61	0.47	0.004	0.11	0.61	0.12	0.15	-0.19	0.47	-0.23	-0.24	6784	-4.5
15	O115	B	0.793	0.028	0.62	0.45	0.003	0.11	0.62	0.13	0.14	-0.17	0.45	-0.26	-0.22	6754	-1.4
16	O115	B	0.793	0.028	0.62	0.48	0.004	0.11	0.62	0.13	0.14	-0.20	0.48	-0.24	-0.25	6779	-2.3
17	O115	B	0.793	0.028	0.62	0.48	0.004	0.11	0.62	0.12	0.14	-0.20	0.48	-0.23	-0.25	6779	-4.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
18	O115	B	0.793	0.028	0.63	0.47	0.003	0.11	0.63	0.12	0.14	-0.19	0.47	-0.25	-0.24	6753	-2.6
19	O115	B	0.793	0.028	0.60	0.47	0.004	0.11	0.60	0.14	0.15	-0.18	0.47	-0.24	-0.24	6734	-1.5
20	O115	B	0.793	0.028	0.62	0.47	0.003	0.11	0.62	0.13	0.14	-0.19	0.47	-0.25	-0.24	6725	-0.5

Appendix W:

**2005 Common Grade 8 Multiple Choice Statistics for
Mathematics**

2005 Common Grade 8 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O001	C	-0.001	0.026	0.66	0.44	0.003	0.09	0.08	0.66	0.17	-0.17	-0.25	0.44	-0.23	7953	-0.1
2	O001	C	-0.001	0.027	0.69	0.42	0.003	0.09	0.06	0.69	0.16	-0.17	-0.25	0.42	-0.21	7395	4.0
3	O001	C	-0.001	0.028	0.68	0.42	0.002	0.10	0.07	0.68	0.16	-0.18	-0.24	0.42	-0.22	7392	5.6
4	O001	C	-0.001	0.027	0.69	0.41	0.002	0.09	0.06	0.69	0.15	-0.16	-0.24	0.41	-0.22	7394	3.5
5	O001	C	-0.001	0.028	0.68	0.42	0.002	0.09	0.07	0.68	0.16	-0.20	-0.22	0.42	-0.21	7387	4.3
6	O001	C	-0.001	0.027	0.70	0.40	0.002	0.09	0.06	0.70	0.15	-0.16	-0.24	0.40	-0.21	7388	1.9
7	O001	C	-0.001	0.028	0.68	0.41	0.002	0.09	0.06	0.68	0.16	-0.16	-0.24	0.41	-0.22	7391	5.3
8	O001	C	-0.001	0.027	0.68	0.41	0.001	0.09	0.06	0.68	0.17	-0.17	-0.23	0.41	-0.22	7394	4.6
9	O001	C	-0.001	0.028	0.70	0.42	0.002	0.09	0.06	0.70	0.15	-0.16	-0.24	0.42	-0.24	7395	2.4
10	O001	C	-0.001	0.028	0.68	0.42	0.002	0.10	0.06	0.68	0.16	-0.18	-0.22	0.42	-0.23	7377	4.5
11	O001	C	-0.001	0.027	0.69	0.40	0.001	0.10	0.06	0.69	0.16	-0.18	-0.21	0.40	-0.22	7377	1.1
12	O001	C	-0.001	0.028	0.68	0.43	0.002	0.09	0.06	0.68	0.16	-0.17	-0.25	0.43	-0.23	7357	5.5
13	O001	C	-0.001	0.028	0.68	0.43	0.002	0.09	0.06	0.68	0.16	-0.19	-0.24	0.43	-0.22	7335	4.2
14	O001	C	-0.001	0.027	0.68	0.38	0.002	0.10	0.06	0.68	0.16	-0.17	-0.24	0.38	-0.18	7320	7.6
15	O001	C	-0.001	0.028	0.70	0.40	0.002	0.09	0.06	0.70	0.16	-0.19	-0.25	0.40	-0.20	7307	3.3
16	O001	C	-0.001	0.027	0.68	0.42	0.002	0.09	0.07	0.68	0.16	-0.19	-0.25	0.42	-0.21	7316	2.7
17	O001	C	-0.001	0.027	0.69	0.41	0.002	0.09	0.06	0.69	0.16	-0.16	-0.25	0.41	-0.21	7330	2.6
18	O001	C	-0.001	0.028	0.68	0.41	0.002	0.09	0.07	0.68	0.16	-0.15	-0.26	0.41	-0.22	7306	5.1
19	O001	C	-0.001	0.028	0.68	0.42	0.003	0.09	0.06	0.68	0.16	-0.16	-0.23	0.42	-0.23	7337	5.9
20	O001	C	-0.001	0.028	0.68	0.42	0.002	0.09	0.07	0.68	0.16	-0.17	-0.24	0.42	-0.23	7354	5.6
1	O002	A	-1.282	0.033	0.83	0.56	0.002	0.83	0.13	0.02	0.02	0.56	-0.44	-0.19	-0.21	7953	-9.0
2	O002	A	-1.282	0.036	0.86	0.53	0.002	0.86	0.11	0.02	0.02	0.53	-0.44	-0.16	-0.17	7395	-9.4
3	O002	A	-1.282	0.037	0.86	0.52	0.002	0.86	0.11	0.02	0.01	0.52	-0.43	-0.19	-0.16	7392	-7.0
4	O002	A	-1.282	0.035	0.85	0.53	0.001	0.85	0.11	0.02	0.01	0.53	-0.43	-0.18	-0.17	7394	-7.7
5	O002	A	-1.282	0.036	0.85	0.52	0.002	0.85	0.11	0.02	0.02	0.52	-0.42	-0.19	-0.17	7387	-7.4
6	O002	A	-1.282	0.036	0.86	0.52	0.002	0.86	0.11	0.02	0.01	0.52	-0.44	-0.17	-0.14	7388	-8.2
7	O002	A	-1.282	0.036	0.85	0.54	0.002	0.85	0.12	0.02	0.02	0.54	-0.45	-0.17	-0.17	7391	-7.2
8	O002	A	-1.282	0.036	0.86	0.52	0.001	0.86	0.11	0.02	0.01	0.52	-0.44	-0.17	-0.17	7394	-8.4
9	O002	A	-1.282	0.036	0.86	0.53	0.002	0.86	0.11	0.02	0.02	0.53	-0.43	-0.20	-0.17	7395	-8.5
10	O002	A	-1.282	0.036	0.85	0.52	0.002	0.85	0.12	0.02	0.01	0.52	-0.44	-0.18	-0.15	7377	-7.0
11	O002	A	-1.282	0.035	0.86	0.51	0.001	0.86	0.11	0.02	0.01	0.51	-0.42	-0.18	-0.17	7377	-9.9
12	O002	A	-1.282	0.036	0.86	0.53	0.002	0.86	0.11	0.02	0.01	0.53	-0.43	-0.19	-0.18	7357	-8.1
13	O002	A	-1.282	0.037	0.86	0.53	0.002	0.86	0.11	0.02	0.01	0.53	-0.44	-0.17	-0.18	7335	-6.7
14	O002	A	-1.282	0.036	0.85	0.53	0.002	0.85	0.12	0.02	0.01	0.53	-0.44	-0.17	-0.17	7320	-7.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O002	A	-1.282	0.036	0.85	0.54	0.002	0.85	0.11	0.02	0.01	0.54	-0.45	-0.20	-0.16	7307	-7.4
16	O002	A	-1.282	0.036	0.85	0.54	0.002	0.85	0.11	0.02	0.01	0.54	-0.44	-0.19	-0.17	7316	-7.4
17	O002	A	-1.282	0.035	0.85	0.52	0.002	0.85	0.11	0.02	0.01	0.52	-0.42	-0.19	-0.16	7330	-7.3
18	O002	A	-1.282	0.036	0.86	0.52	0.001	0.86	0.11	0.02	0.01	0.52	-0.43	-0.18	-0.17	7306	-7.2
19	O002	A	-1.282	0.036	0.86	0.54	0.003	0.86	0.11	0.02	0.01	0.54	-0.43	-0.21	-0.16	7337	-9.2
20	O002	A	-1.282	0.036	0.85	0.54	0.002	0.85	0.11	0.02	0.01	0.54	-0.44	-0.19	-0.18	7354	-6.6
1	O003	C	0.396	0.025	0.59	0.39	0.003	0.08	0.14	0.59	0.19	-0.18	-0.18	0.39	-0.19	7953	4.7
2	O003	C	0.396	0.026	0.62	0.37	0.003	0.07	0.14	0.62	0.17	-0.18	-0.18	0.37	-0.18	7395	4.9
3	O003	C	0.396	0.027	0.62	0.37	0.002	0.07	0.13	0.62	0.17	-0.18	-0.17	0.37	-0.19	7392	6.5
4	O003	C	0.396	0.026	0.61	0.39	0.002	0.07	0.14	0.61	0.18	-0.19	-0.19	0.39	-0.19	7394	5.3
5	O003	C	0.396	0.027	0.61	0.39	0.002	0.07	0.14	0.61	0.18	-0.19	-0.19	0.39	-0.19	7387	4.1
6	O003	C	0.396	0.026	0.61	0.39	0.002	0.07	0.14	0.61	0.18	-0.19	-0.18	0.39	-0.19	7388	4.7
7	O003	C	0.396	0.027	0.62	0.40	0.002	0.07	0.14	0.62	0.18	-0.19	-0.17	0.40	-0.21	7391	3.3
8	O003	C	0.396	0.026	0.61	0.37	0.002	0.07	0.14	0.61	0.17	-0.21	-0.16	0.37	-0.17	7394	5.6
9	O003	C	0.396	0.027	0.61	0.39	0.002	0.07	0.15	0.61	0.17	-0.20	-0.20	0.39	-0.18	7395	4.2
10	O003	C	0.396	0.027	0.61	0.38	0.002	0.07	0.14	0.61	0.18	-0.18	-0.18	0.38	-0.20	7377	4.8
11	O003	C	0.396	0.026	0.62	0.40	0.002	0.07	0.14	0.62	0.17	-0.18	-0.19	0.40	-0.21	7377	1.2
12	O003	C	0.396	0.027	0.61	0.40	0.002	0.08	0.14	0.61	0.18	-0.19	-0.19	0.40	-0.20	7357	4.7
13	O003	C	0.396	0.027	0.62	0.39	0.002	0.07	0.14	0.62	0.17	-0.21	-0.19	0.39	-0.18	7335	6.8
14	O003	C	0.396	0.027	0.62	0.39	0.003	0.07	0.14	0.62	0.17	-0.19	-0.18	0.39	-0.20	7320	4.6
15	O003	C	0.396	0.027	0.62	0.38	0.002	0.07	0.13	0.62	0.18	-0.22	-0.16	0.38	-0.18	7307	4.7
16	O003	C	0.396	0.026	0.61	0.39	0.002	0.07	0.14	0.61	0.18	-0.19	-0.17	0.39	-0.19	7316	3.1
17	O003	C	0.396	0.026	0.61	0.40	0.002	0.07	0.14	0.61	0.18	-0.20	-0.20	0.40	-0.18	7330	2.5
18	O003	C	0.396	0.027	0.61	0.38	0.002	0.07	0.14	0.61	0.17	-0.19	-0.20	0.38	-0.17	7306	6.0
19	O003	C	0.396	0.027	0.62	0.39	0.003	0.07	0.13	0.62	0.18	-0.19	-0.18	0.39	-0.20	7337	5.1
20	O003	C	0.396	0.027	0.61	0.37	0.003	0.07	0.14	0.61	0.18	-0.19	-0.17	0.37	-0.18	7354	7.5
1	O004	C	-0.603	0.028	0.76	0.44	0.003	0.05	0.06	0.76	0.12	-0.15	-0.23	0.44	-0.27	7953	-4.3
2	O004	C	-0.603	0.030	0.78	0.41	0.003	0.04	0.07	0.78	0.10	-0.10	-0.23	0.41	-0.28	7395	-2.5
3	O004	C	-0.603	0.031	0.78	0.42	0.002	0.04	0.07	0.78	0.11	-0.08	-0.25	0.42	-0.29	7392	0.5
4	O004	C	-0.603	0.030	0.78	0.42	0.002	0.05	0.07	0.78	0.11	-0.11	-0.22	0.42	-0.29	7394	-1.4
5	O004	C	-0.603	0.030	0.78	0.40	0.002	0.05	0.07	0.78	0.10	-0.11	-0.22	0.40	-0.27	7387	-1.2
6	O004	C	-0.603	0.030	0.78	0.42	0.002	0.05	0.06	0.78	0.11	-0.14	-0.23	0.42	-0.27	7388	-3.7
7	O004	C	-0.603	0.031	0.79	0.43	0.002	0.04	0.06	0.79	0.10	-0.12	-0.24	0.43	-0.29	7391	-2.8
8	O004	C	-0.603	0.030	0.79	0.41	0.001	0.05	0.06	0.79	0.11	-0.12	-0.22	0.41	-0.28	7394	-2.4
9	O004	C	-0.603	0.031	0.79	0.41	0.001	0.04	0.06	0.79	0.10	-0.11	-0.26	0.41	-0.26	7395	-2.4
10	O004	C	-0.603	0.031	0.79	0.42	0.002	0.05	0.06	0.79	0.10	-0.12	-0.23	0.42	-0.29	7377	-3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O004	C	-0.603	0.030	0.78	0.42	0.001	0.05	0.06	0.78	0.11	-0.13	-0.24	0.42	-0.27	7377	-4.9
12	O004	C	-0.603	0.030	0.77	0.42	0.003	0.05	0.07	0.77	0.11	-0.13	-0.21	0.42	-0.28	7357	-0.1
13	O004	C	-0.603	0.031	0.79	0.43	0.002	0.04	0.06	0.79	0.11	-0.11	-0.24	0.43	-0.29	7335	-1.8
14	O004	C	-0.603	0.030	0.77	0.42	0.003	0.05	0.07	0.77	0.11	-0.11	-0.24	0.42	-0.28	7320	-1.9
15	O004	C	-0.603	0.031	0.79	0.41	0.002	0.05	0.06	0.79	0.10	-0.11	-0.24	0.41	-0.27	7307	-2.6
16	O004	C	-0.603	0.030	0.78	0.41	0.002	0.05	0.06	0.78	0.11	-0.11	-0.22	0.41	-0.28	7316	-2.4
17	O004	C	-0.603	0.030	0.77	0.42	0.002	0.05	0.07	0.77	0.11	-0.11	-0.24	0.42	-0.27	7330	-2.7
18	O004	C	-0.603	0.031	0.78	0.43	0.002	0.05	0.06	0.78	0.11	-0.12	-0.22	0.43	-0.31	7306	-1.9
19	O004	C	-0.603	0.031	0.78	0.42	0.003	0.04	0.06	0.78	0.11	-0.12	-0.23	0.42	-0.28	7337	-1.3
20	O004	C	-0.603	0.031	0.77	0.42	0.003	0.05	0.06	0.77	0.12	-0.13	-0.21	0.42	-0.29	7354	-1.1
1	O006	B	-0.082	0.026	0.67	0.49	0.003	0.25	0.67	0.04	0.04	-0.36	0.49	-0.20	-0.14	7953	-5.5
2	O006	B	-0.082	0.028	0.70	0.47	0.003	0.22	0.70	0.04	0.03	-0.34	0.47	-0.20	-0.15	7395	-4.1
3	O006	B	-0.082	0.028	0.69	0.48	0.003	0.23	0.69	0.04	0.04	-0.35	0.48	-0.22	-0.14	7392	-1.3
4	O006	B	-0.082	0.028	0.70	0.46	0.002	0.23	0.70	0.04	0.03	-0.33	0.46	-0.21	-0.15	7394	-2.8
5	O006	B	-0.082	0.028	0.70	0.46	0.002	0.23	0.70	0.04	0.04	-0.34	0.46	-0.19	-0.14	7387	-2.4
6	O006	B	-0.082	0.028	0.69	0.48	0.002	0.23	0.69	0.04	0.04	-0.35	0.48	-0.20	-0.15	7388	-3.1
7	O006	B	-0.082	0.028	0.70	0.48	0.003	0.22	0.70	0.04	0.03	-0.35	0.48	-0.21	-0.15	7391	-2.6
8	O006	B	-0.082	0.028	0.69	0.46	0.002	0.23	0.69	0.04	0.04	-0.32	0.46	-0.20	-0.17	7394	-0.4
9	O006	B	-0.082	0.028	0.70	0.47	0.001	0.23	0.70	0.04	0.03	-0.34	0.47	-0.20	-0.14	7395	-1.7
10	O006	B	-0.082	0.028	0.70	0.47	0.002	0.23	0.70	0.04	0.03	-0.35	0.47	-0.20	-0.15	7377	-2.5
11	O006	B	-0.082	0.027	0.70	0.44	0.001	0.22	0.70	0.04	0.04	-0.31	0.44	-0.21	-0.15	7377	-4.5
12	O006	B	-0.082	0.028	0.70	0.45	0.003	0.22	0.70	0.04	0.04	-0.31	0.45	-0.21	-0.15	7357	-0.7
13	O006	B	-0.082	0.028	0.68	0.47	0.002	0.24	0.68	0.05	0.04	-0.35	0.47	-0.20	-0.15	7335	0.6
14	O006	B	-0.082	0.028	0.70	0.45	0.003	0.23	0.70	0.04	0.03	-0.34	0.45	-0.19	-0.14	7320	-1.4
15	O006	B	-0.082	0.028	0.69	0.47	0.002	0.24	0.69	0.04	0.03	-0.36	0.47	-0.19	-0.13	7307	-0.9
16	O006	B	-0.082	0.028	0.69	0.46	0.002	0.23	0.69	0.04	0.03	-0.34	0.46	-0.19	-0.13	7316	-1.5
17	O006	B	-0.082	0.028	0.69	0.46	0.003	0.23	0.69	0.05	0.04	-0.33	0.46	-0.21	-0.12	7330	-2.0
18	O006	B	-0.082	0.028	0.69	0.47	0.003	0.23	0.69	0.04	0.04	-0.35	0.47	-0.19	-0.14	7306	-1.0
19	O006	B	-0.082	0.028	0.69	0.45	0.003	0.23	0.69	0.04	0.04	-0.32	0.45	-0.20	-0.15	7337	1.1
20	O006	B	-0.082	0.028	0.70	0.46	0.003	0.22	0.70	0.05	0.03	-0.31	0.46	-0.22	-0.16	7354	0.2
1	O007	C	-0.397	0.027	0.74	0.42	0.003	0.11	0.09	0.74	0.06	-0.27	-0.10	0.42	-0.28	7953	-3.5
2	O007	C	-0.397	0.029	0.76	0.42	0.003	0.10	0.08	0.76	0.06	-0.27	-0.09	0.42	-0.29	7395	-3.2
3	O007	C	-0.397	0.030	0.75	0.44	0.003	0.10	0.08	0.75	0.06	-0.30	-0.07	0.44	-0.31	7392	1.2
4	O007	C	-0.397	0.029	0.75	0.42	0.002	0.10	0.09	0.75	0.06	-0.28	-0.09	0.42	-0.28	7394	-1.1
5	O007	C	-0.397	0.029	0.74	0.45	0.002	0.11	0.09	0.74	0.06	-0.30	-0.10	0.45	-0.30	7387	-1.3
6	O007	C	-0.397	0.029	0.75	0.45	0.002	0.10	0.09	0.75	0.06	-0.29	-0.10	0.45	-0.30	7388	-2.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O007	C	-0.397	0.029	0.75	0.44	0.003	0.10	0.09	0.75	0.06	-0.29	-0.08	0.44	-0.30	7391	-1.1
8	O007	C	-0.397	0.029	0.75	0.43	0.002	0.11	0.08	0.75	0.06	-0.30	-0.07	0.43	-0.28	7394	-0.7
9	O007	C	-0.397	0.029	0.75	0.43	0.002	0.11	0.09	0.75	0.06	-0.30	-0.08	0.43	-0.29	7395	1.6
10	O007	C	-0.397	0.029	0.75	0.43	0.003	0.11	0.09	0.75	0.06	-0.30	-0.09	0.43	-0.28	7377	0.4
11	O007	C	-0.397	0.029	0.75	0.43	0.002	0.10	0.09	0.75	0.06	-0.28	-0.09	0.43	-0.30	7377	-3.9
12	O007	C	-0.397	0.029	0.75	0.43	0.003	0.10	0.08	0.75	0.06	-0.30	-0.06	0.43	-0.30	7357	1.8
13	O007	C	-0.397	0.030	0.75	0.43	0.002	0.10	0.09	0.75	0.06	-0.30	-0.08	0.43	-0.30	7335	1.3
14	O007	C	-0.397	0.029	0.76	0.42	0.004	0.10	0.09	0.76	0.06	-0.31	-0.07	0.42	-0.28	7320	-2.0
15	O007	C	-0.397	0.029	0.75	0.44	0.002	0.10	0.08	0.75	0.06	-0.30	-0.07	0.44	-0.32	7307	-1.2
16	O007	C	-0.397	0.029	0.74	0.44	0.002	0.11	0.09	0.74	0.06	-0.30	-0.08	0.44	-0.29	7316	-0.4
17	O007	C	-0.397	0.029	0.75	0.45	0.002	0.11	0.08	0.75	0.06	-0.28	-0.10	0.45	-0.30	7330	-1.4
18	O007	C	-0.397	0.030	0.74	0.44	0.003	0.11	0.09	0.74	0.06	-0.29	-0.08	0.44	-0.30	7306	2.7
19	O007	C	-0.397	0.030	0.74	0.45	0.003	0.12	0.08	0.74	0.06	-0.32	-0.08	0.45	-0.28	7337	0.4
20	O007	C	-0.397	0.030	0.75	0.43	0.003	0.10	0.08	0.75	0.06	-0.29	-0.09	0.43	-0.29	7354	0.9
1	O008	B	-0.302	0.027	0.70	0.48	0.003	0.19	0.70	0.05	0.06	-0.37	0.48	-0.19	-0.12	7953	-3.3
2	O008	B	-0.302	0.029	0.73	0.43	0.003	0.16	0.73	0.05	0.06	-0.31	0.43	-0.19	-0.14	7395	0.6
3	O008	B	-0.302	0.029	0.73	0.45	0.002	0.17	0.73	0.05	0.06	-0.32	0.45	-0.21	-0.14	7392	2.0
4	O008	B	-0.302	0.029	0.74	0.45	0.003	0.16	0.74	0.04	0.06	-0.32	0.45	-0.19	-0.17	7394	-0.8
5	O008	B	-0.302	0.029	0.73	0.45	0.002	0.16	0.73	0.05	0.06	-0.32	0.45	-0.22	-0.13	7387	-1.5
6	O008	B	-0.302	0.029	0.74	0.45	0.002	0.16	0.74	0.05	0.06	-0.33	0.45	-0.19	-0.15	7388	-2.1
7	O008	B	-0.302	0.029	0.73	0.45	0.003	0.16	0.73	0.05	0.07	-0.31	0.45	-0.19	-0.17	7391	-0.5
8	O008	B	-0.302	0.029	0.74	0.43	0.002	0.16	0.74	0.05	0.06	-0.31	0.43	-0.20	-0.13	7394	-2.0
9	O008	B	-0.302	0.029	0.74	0.46	0.002	0.16	0.74	0.05	0.06	-0.34	0.46	-0.19	-0.16	7395	-0.9
10	O008	B	-0.302	0.029	0.73	0.46	0.002	0.16	0.73	0.05	0.06	-0.33	0.46	-0.20	-0.16	7377	-1.5
11	O008	B	-0.302	0.028	0.74	0.43	0.001	0.16	0.74	0.04	0.06	-0.32	0.43	-0.18	-0.14	7377	-3.6
12	O008	B	-0.302	0.029	0.73	0.44	0.002	0.16	0.73	0.04	0.07	-0.30	0.44	-0.19	-0.16	7357	0.8
13	O008	B	-0.302	0.029	0.74	0.44	0.002	0.15	0.74	0.05	0.06	-0.31	0.44	-0.21	-0.14	7335	0.5
14	O008	B	-0.302	0.029	0.73	0.45	0.003	0.16	0.73	0.05	0.06	-0.33	0.45	-0.20	-0.13	7320	-2.5
15	O008	B	-0.302	0.029	0.73	0.44	0.002	0.16	0.73	0.05	0.06	-0.32	0.44	-0.20	-0.13	7307	-0.8
16	O008	B	-0.302	0.029	0.73	0.46	0.002	0.17	0.73	0.05	0.06	-0.32	0.46	-0.21	-0.16	7316	-2.0
17	O008	B	-0.302	0.028	0.74	0.45	0.002	0.16	0.74	0.04	0.06	-0.33	0.45	-0.18	-0.15	7330	-2.3
18	O008	B	-0.302	0.029	0.74	0.45	0.002	0.16	0.74	0.04	0.06	-0.32	0.45	-0.20	-0.15	7306	-0.4
19	O008	B	-0.302	0.029	0.74	0.44	0.003	0.16	0.74	0.04	0.06	-0.33	0.44	-0.19	-0.13	7337	1.0
20	O008	B	-0.302	0.029	0.72	0.47	0.002	0.16	0.72	0.05	0.06	-0.34	0.47	-0.21	-0.15	7354	1.7
1	O009	C	-0.187	0.026	0.71	0.31	0.003	0.04	0.16	0.71	0.10	-0.17	-0.15	0.31	-0.16	7953	7.0
2	O009	C	-0.187	0.028	0.71	0.31	0.003	0.03	0.16	0.71	0.09	-0.14	-0.16	0.31	-0.17	7395	8.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O009	C	-0.187	0.029	0.72	0.32	0.002	0.03	0.15	0.72	0.10	-0.17	-0.15	0.32	-0.19	7392	9.1
4	O009	C	-0.187	0.028	0.72	0.29	0.002	0.03	0.16	0.72	0.09	-0.14	-0.15	0.29	-0.17	7394	9.1
5	O009	C	-0.187	0.028	0.72	0.30	0.002	0.03	0.15	0.72	0.10	-0.16	-0.14	0.30	-0.18	7387	8.9
6	O009	C	-0.187	0.028	0.72	0.29	0.002	0.03	0.15	0.72	0.10	-0.14	-0.15	0.29	-0.16	7388	8.3
7	O009	C	-0.187	0.028	0.72	0.29	0.003	0.03	0.15	0.72	0.09	-0.15	-0.14	0.29	-0.16	7391	9.2
8	O009	C	-0.187	0.028	0.71	0.30	0.002	0.03	0.16	0.71	0.10	-0.15	-0.15	0.30	-0.18	7394	8.2
9	O009	C	-0.187	0.028	0.73	0.30	0.002	0.03	0.15	0.73	0.10	-0.15	-0.16	0.30	-0.16	7395	8.5
10	O009	C	-0.187	0.028	0.73	0.31	0.002	0.03	0.15	0.73	0.09	-0.15	-0.15	0.31	-0.20	7377	7.2
11	O009	C	-0.187	0.028	0.70	0.31	0.001	0.04	0.16	0.70	0.10	-0.18	-0.17	0.31	-0.14	7377	6.8
12	O009	C	-0.187	0.028	0.72	0.29	0.002	0.03	0.15	0.72	0.10	-0.14	-0.16	0.29	-0.15	7357	9.0
13	O009	C	-0.187	0.029	0.72	0.31	0.002	0.03	0.16	0.72	0.10	-0.15	-0.17	0.31	-0.16	7335	9.9
14	O009	C	-0.187	0.028	0.72	0.29	0.003	0.03	0.15	0.72	0.10	-0.14	-0.15	0.29	-0.16	7320	9.9
15	O009	C	-0.187	0.028	0.71	0.31	0.002	0.03	0.16	0.71	0.10	-0.14	-0.14	0.31	-0.20	7307	9.2
16	O009	C	-0.187	0.028	0.72	0.30	0.002	0.03	0.16	0.72	0.09	-0.16	-0.16	0.30	-0.16	7316	7.6
17	O009	C	-0.187	0.028	0.72	0.28	0.002	0.03	0.16	0.72	0.09	-0.14	-0.15	0.28	-0.15	7330	7.9
18	O009	C	-0.187	0.029	0.72	0.29	0.002	0.03	0.16	0.72	0.10	-0.13	-0.16	0.29	-0.16	7306	9.9
19	O009	C	-0.187	0.029	0.72	0.30	0.002	0.03	0.16	0.72	0.09	-0.17	-0.15	0.30	-0.16	7337	9.9
20	O009	C	-0.187	0.029	0.72	0.32	0.002	0.03	0.15	0.72	0.09	-0.18	-0.16	0.32	-0.16	7354	8.9
1	O010	C	-0.779	0.029	0.78	0.48	0.003	0.03	0.13	0.78	0.06	-0.18	-0.35	0.48	-0.20	7953	-7.0
2	O010	C	-0.779	0.031	0.80	0.47	0.003	0.03	0.11	0.80	0.06	-0.18	-0.33	0.47	-0.20	7395	-5.2
3	O010	C	-0.779	0.032	0.80	0.48	0.002	0.03	0.12	0.80	0.06	-0.18	-0.35	0.48	-0.19	7392	-3.2
4	O010	C	-0.779	0.031	0.80	0.47	0.002	0.03	0.12	0.80	0.06	-0.18	-0.34	0.47	-0.20	7394	-5.9
5	O010	C	-0.779	0.031	0.79	0.46	0.002	0.03	0.12	0.79	0.06	-0.17	-0.35	0.46	-0.19	7387	-3.4
6	O010	C	-0.779	0.032	0.80	0.47	0.003	0.03	0.11	0.80	0.06	-0.19	-0.33	0.47	-0.20	7388	-5.7
7	O010	C	-0.779	0.032	0.80	0.47	0.002	0.02	0.12	0.80	0.06	-0.17	-0.34	0.47	-0.20	7391	-4.1
8	O010	C	-0.779	0.031	0.79	0.48	0.002	0.03	0.12	0.79	0.06	-0.21	-0.32	0.48	-0.21	7394	-4.3
9	O010	C	-0.779	0.032	0.80	0.47	0.002	0.03	0.12	0.80	0.05	-0.19	-0.34	0.47	-0.20	7395	-4.9
10	O010	C	-0.779	0.032	0.80	0.46	0.002	0.03	0.11	0.80	0.06	-0.19	-0.33	0.46	-0.19	7377	-1.9
11	O010	C	-0.779	0.031	0.80	0.44	0.002	0.03	0.11	0.80	0.06	-0.18	-0.33	0.44	-0.18	7377	-5.5
12	O010	C	-0.779	0.032	0.79	0.47	0.003	0.03	0.12	0.79	0.06	-0.19	-0.34	0.47	-0.18	7357	-4.1
13	O010	C	-0.779	0.032	0.79	0.46	0.003	0.03	0.12	0.79	0.06	-0.17	-0.34	0.46	-0.19	7335	-1.1
14	O010	C	-0.779	0.031	0.80	0.44	0.003	0.03	0.12	0.80	0.06	-0.20	-0.31	0.44	-0.17	7320	-3.0
15	O010	C	-0.779	0.032	0.79	0.47	0.002	0.03	0.12	0.79	0.07	-0.20	-0.34	0.47	-0.19	7307	-2.4
16	O010	C	-0.779	0.032	0.80	0.47	0.003	0.02	0.11	0.80	0.06	-0.18	-0.32	0.47	-0.21	7316	-4.3
17	O010	C	-0.779	0.031	0.79	0.47	0.003	0.03	0.12	0.79	0.06	-0.20	-0.32	0.47	-0.21	7330	-3.4
18	O010	C	-0.779	0.032	0.81	0.47	0.002	0.02	0.11	0.81	0.06	-0.17	-0.33	0.47	-0.22	7306	-3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O010	C	-0.779	0.032	0.80	0.47	0.003	0.03	0.11	0.80	0.06	-0.18	-0.34	0.47	-0.19	7337	-4.2
20	O010	C	-0.779	0.032	0.79	0.49	0.002	0.03	0.12	0.79	0.06	-0.20	-0.36	0.49	-0.19	7354	-4.2
1	O011	B	0.064	0.026	0.63	0.55	0.003	0.15	0.63	0.03	0.18	-0.26	0.55	-0.16	-0.35	7953	-8.7
2	O011	B	0.064	0.027	0.67	0.52	0.004	0.14	0.67	0.03	0.17	-0.26	0.52	-0.16	-0.33	7395	-6.8
3	O011	B	0.064	0.028	0.67	0.53	0.002	0.14	0.67	0.03	0.15	-0.26	0.53	-0.18	-0.34	7392	-5.5
4	O011	B	0.064	0.027	0.68	0.52	0.002	0.14	0.68	0.03	0.15	-0.27	0.52	-0.15	-0.33	7394	-7.8
5	O011	B	0.064	0.027	0.66	0.53	0.002	0.14	0.66	0.03	0.16	-0.28	0.53	-0.17	-0.32	7387	-6.2
6	O011	B	0.064	0.027	0.67	0.52	0.002	0.14	0.67	0.03	0.16	-0.25	0.52	-0.18	-0.33	7388	-6.8
7	O011	B	0.064	0.027	0.66	0.54	0.003	0.15	0.66	0.03	0.16	-0.28	0.54	-0.18	-0.32	7391	-4.8
8	O011	B	0.064	0.027	0.66	0.52	0.003	0.14	0.66	0.03	0.17	-0.27	0.52	-0.16	-0.32	7394	-6.1
9	O011	B	0.064	0.028	0.68	0.51	0.002	0.14	0.68	0.03	0.16	-0.26	0.51	-0.17	-0.32	7395	-4.8
10	O011	B	0.064	0.028	0.66	0.53	0.003	0.14	0.66	0.03	0.17	-0.27	0.53	-0.16	-0.34	7377	-6.3
11	O011	B	0.064	0.027	0.66	0.51	0.001	0.14	0.66	0.03	0.17	-0.25	0.51	-0.17	-0.32	7377	-7.7
12	O011	B	0.064	0.028	0.66	0.52	0.003	0.14	0.66	0.03	0.17	-0.26	0.52	-0.17	-0.33	7357	-4.2
13	O011	B	0.064	0.028	0.67	0.51	0.003	0.14	0.67	0.03	0.16	-0.27	0.51	-0.17	-0.31	7335	-3.3
14	O011	B	0.064	0.027	0.66	0.52	0.003	0.14	0.66	0.03	0.17	-0.27	0.52	-0.16	-0.33	7320	-5.9
15	O011	B	0.064	0.028	0.68	0.53	0.003	0.15	0.68	0.03	0.15	-0.28	0.53	-0.15	-0.33	7307	-6.4
16	O011	B	0.064	0.027	0.68	0.53	0.003	0.14	0.68	0.03	0.15	-0.27	0.53	-0.17	-0.34	7316	-8.6
17	O011	B	0.064	0.027	0.66	0.53	0.003	0.14	0.66	0.03	0.17	-0.27	0.53	-0.17	-0.34	7330	-7.7
18	O011	B	0.064	0.028	0.67	0.52	0.003	0.14	0.67	0.03	0.16	-0.28	0.52	-0.16	-0.32	7306	-5.5
19	O011	B	0.064	0.028	0.66	0.54	0.003	0.14	0.66	0.03	0.17	-0.27	0.54	-0.17	-0.34	7337	-5.3
20	O011	B	0.064	0.028	0.66	0.54	0.003	0.14	0.66	0.03	0.17	-0.25	0.54	-0.16	-0.36	7354	-4.9
1	O012	D	-1.119	0.031	0.82	0.43	0.003	0.03	0.13	0.03	0.82	-0.17	-0.31	-0.21	0.43	7953	-1.7
2	O012	D	-1.119	0.034	0.84	0.42	0.003	0.02	0.11	0.02	0.84	-0.16	-0.29	-0.20	0.42	7395	-1.0
3	O012	D	-1.119	0.035	0.84	0.44	0.002	0.02	0.11	0.02	0.84	-0.16	-0.33	-0.19	0.44	7392	-2.1
4	O012	D	-1.119	0.034	0.85	0.41	0.002	0.02	0.11	0.02	0.85	-0.15	-0.30	-0.18	0.41	7394	-2.3
5	O012	D	-1.119	0.034	0.84	0.41	0.003	0.02	0.11	0.02	0.84	-0.16	-0.29	-0.20	0.41	7387	-0.9
6	O012	D	-1.119	0.034	0.85	0.42	0.002	0.02	0.11	0.02	0.85	-0.16	-0.31	-0.19	0.42	7388	-3.9
7	O012	D	-1.119	0.035	0.84	0.44	0.003	0.02	0.11	0.02	0.84	-0.16	-0.32	-0.19	0.44	7391	-3.0
8	O012	D	-1.119	0.034	0.84	0.42	0.002	0.02	0.11	0.03	0.84	-0.16	-0.29	-0.20	0.42	7394	-2.3
9	O012	D	-1.119	0.035	0.85	0.40	0.002	0.02	0.11	0.02	0.85	-0.15	-0.30	-0.18	0.40	7395	-1.6
10	O012	D	-1.119	0.035	0.84	0.42	0.002	0.02	0.12	0.02	0.84	-0.14	-0.31	-0.20	0.42	7377	0.7
11	O012	D	-1.119	0.033	0.84	0.40	0.001	0.02	0.12	0.02	0.84	-0.13	-0.30	-0.18	0.40	7377	-3.0
12	O012	D	-1.119	0.034	0.85	0.40	0.003	0.02	0.11	0.02	0.85	-0.13	-0.29	-0.19	0.40	7357	-1.2
13	O012	D	-1.119	0.035	0.84	0.41	0.002	0.02	0.11	0.02	0.84	-0.15	-0.30	-0.20	0.41	7335	-0.2
14	O012	D	-1.119	0.034	0.85	0.42	0.003	0.02	0.10	0.03	0.85	-0.14	-0.29	-0.22	0.42	7320	-3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O012	D	-1.119	0.034	0.85	0.42	0.002	0.02	0.11	0.02	0.85	-0.16	-0.30	-0.20	0.42	7307	-2.4
16	O012	D	-1.119	0.034	0.84	0.40	0.002	0.02	0.11	0.02	0.84	-0.15	-0.29	-0.18	0.40	7316	-0.6
17	O012	D	-1.119	0.034	0.84	0.43	0.002	0.03	0.11	0.03	0.84	-0.14	-0.32	-0.20	0.43	7330	-3.3
18	O012	D	-1.119	0.035	0.85	0.41	0.002	0.02	0.11	0.02	0.85	-0.16	-0.29	-0.20	0.41	7306	-0.8
19	O012	D	-1.119	0.035	0.84	0.42	0.003	0.02	0.11	0.02	0.84	-0.16	-0.31	-0.19	0.42	7337	-1.0
20	O012	D	-1.119	0.035	0.84	0.43	0.002	0.02	0.12	0.02	0.84	-0.15	-0.32	-0.19	0.43	7354	-0.6
1	O013	D	-0.921	0.030	0.80	0.43	0.003	0.02	0.03	0.15	0.80	-0.21	-0.24	-0.27	0.43	7953	-2.8
2	O013	D	-0.921	0.032	0.82	0.40	0.003	0.02	0.02	0.14	0.82	-0.19	-0.21	-0.28	0.40	7395	-1.0
3	O013	D	-0.921	0.033	0.81	0.42	0.002	0.02	0.03	0.15	0.81	-0.21	-0.23	-0.27	0.42	7392	3.6
4	O013	D	-0.921	0.032	0.82	0.43	0.003	0.02	0.02	0.14	0.82	-0.19	-0.21	-0.30	0.43	7394	-2.7
5	O013	D	-0.921	0.032	0.81	0.42	0.002	0.02	0.03	0.14	0.81	-0.21	-0.25	-0.26	0.42	7387	0.2
6	O013	D	-0.921	0.033	0.82	0.40	0.002	0.02	0.02	0.14	0.82	-0.21	-0.23	-0.25	0.40	7388	0.6
7	O013	D	-0.921	0.033	0.81	0.41	0.003	0.02	0.02	0.14	0.81	-0.21	-0.22	-0.27	0.41	7391	0.5
8	O013	D	-0.921	0.033	0.81	0.43	0.002	0.02	0.03	0.14	0.81	-0.20	-0.23	-0.29	0.43	7394	0.1
9	O013	D	-0.921	0.033	0.83	0.43	0.002	0.02	0.02	0.14	0.83	-0.20	-0.21	-0.30	0.43	7395	-1.2
10	O013	D	-0.921	0.033	0.82	0.43	0.002	0.02	0.02	0.14	0.82	-0.22	-0.22	-0.28	0.43	7377	-1.5
11	O013	D	-0.921	0.032	0.82	0.42	0.001	0.02	0.02	0.14	0.82	-0.22	-0.22	-0.27	0.42	7377	-3.4
12	O013	D	-0.921	0.033	0.82	0.44	0.003	0.02	0.02	0.14	0.82	-0.21	-0.22	-0.30	0.44	7357	-2.2
13	O013	D	-0.921	0.034	0.81	0.41	0.002	0.02	0.02	0.15	0.81	-0.21	-0.20	-0.28	0.41	7335	3.6
14	O013	D	-0.921	0.032	0.83	0.41	0.003	0.02	0.02	0.13	0.83	-0.20	-0.22	-0.28	0.41	7320	-3.2
15	O013	D	-0.921	0.033	0.81	0.43	0.002	0.02	0.02	0.15	0.81	-0.22	-0.21	-0.28	0.43	7307	1.1
16	O013	D	-0.921	0.033	0.81	0.43	0.003	0.02	0.02	0.14	0.81	-0.20	-0.23	-0.28	0.43	7316	-1.3
17	O013	D	-0.921	0.032	0.82	0.42	0.003	0.02	0.02	0.14	0.82	-0.20	-0.22	-0.29	0.42	7330	-1.8
18	O013	D	-0.921	0.033	0.82	0.44	0.002	0.02	0.03	0.13	0.82	-0.20	-0.24	-0.29	0.44	7306	-1.5
19	O013	D	-0.921	0.033	0.82	0.43	0.003	0.02	0.02	0.14	0.82	-0.21	-0.21	-0.29	0.43	7337	1.3
20	O013	D	-0.921	0.033	0.82	0.43	0.003	0.02	0.02	0.13	0.82	-0.22	-0.23	-0.27	0.43	7354	0.4
1	O014	B	1.000	0.025	0.49	0.44	0.006	0.18	0.49	0.24	0.09	-0.24	0.44	-0.21	-0.11	7953	5.0
2	O014	B	1.000	0.026	0.49	0.44	0.006	0.18	0.49	0.23	0.09	-0.23	0.44	-0.21	-0.11	7395	3.4
3	O014	B	1.000	0.026	0.51	0.44	0.005	0.17	0.51	0.23	0.09	-0.23	0.44	-0.23	-0.12	7392	2.8
4	O014	B	1.000	0.026	0.51	0.46	0.005	0.18	0.51	0.22	0.09	-0.25	0.46	-0.22	-0.13	7394	0.8
5	O014	B	1.000	0.026	0.49	0.46	0.006	0.18	0.49	0.23	0.09	-0.23	0.46	-0.23	-0.13	7387	1.5
6	O014	B	1.000	0.026	0.51	0.43	0.004	0.17	0.51	0.23	0.09	-0.24	0.43	-0.21	-0.12	7388	2.8
7	O014	B	1.000	0.026	0.50	0.43	0.005	0.17	0.50	0.23	0.09	-0.22	0.43	-0.22	-0.11	7391	2.5
8	O014	B	1.000	0.026	0.51	0.44	0.004	0.17	0.51	0.23	0.09	-0.24	0.44	-0.22	-0.12	7394	0.6
9	O014	B	1.000	0.026	0.51	0.45	0.004	0.18	0.51	0.23	0.09	-0.22	0.45	-0.24	-0.12	7395	1.7
10	O014	B	1.000	0.026	0.51	0.45	0.004	0.17	0.51	0.23	0.09	-0.25	0.45	-0.22	-0.11	7377	2.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O014	B	1.000	0.026	0.49	0.47	0.002	0.18	0.49	0.24	0.09	-0.24	0.47	-0.24	-0.12	7377	-1.0
12	O014	B	1.000	0.026	0.50	0.43	0.004	0.17	0.50	0.24	0.08	-0.22	0.43	-0.22	-0.11	7357	4.2
13	O014	B	1.000	0.026	0.51	0.45	0.004	0.18	0.51	0.22	0.09	-0.22	0.45	-0.23	-0.12	7335	2.8
14	O014	B	1.000	0.026	0.50	0.45	0.006	0.17	0.50	0.24	0.08	-0.23	0.45	-0.23	-0.13	7320	0.7
15	O014	B	1.000	0.026	0.50	0.43	0.004	0.17	0.50	0.24	0.09	-0.21	0.43	-0.23	-0.12	7307	3.5
16	O014	B	1.000	0.026	0.50	0.42	0.005	0.18	0.50	0.24	0.08	-0.23	0.42	-0.21	-0.11	7316	3.6
17	O014	B	1.000	0.026	0.50	0.45	0.005	0.18	0.50	0.23	0.09	-0.22	0.45	-0.22	-0.12	7330	3.1
18	O014	B	1.000	0.026	0.51	0.46	0.005	0.17	0.51	0.23	0.09	-0.22	0.46	-0.24	-0.13	7306	0.8
19	O014	B	1.000	0.026	0.50	0.46	0.006	0.18	0.50	0.23	0.08	-0.23	0.46	-0.23	-0.13	7337	1.3
20	O014	B	1.000	0.026	0.49	0.45	0.005	0.18	0.49	0.25	0.09	-0.21	0.45	-0.25	-0.11	7354	1.7
1	O015	C	0.357	0.025	0.61	0.52	0.004	0.07	0.12	0.61	0.19	-0.25	-0.17	0.52	-0.32	7953	-8.8
2	O015	C	0.357	0.027	0.62	0.50	0.003	0.08	0.12	0.62	0.18	-0.24	-0.17	0.50	-0.30	7395	-6.1
3	O015	C	0.357	0.027	0.62	0.51	0.003	0.08	0.13	0.62	0.18	-0.27	-0.18	0.51	-0.30	7392	-3.9
4	O015	C	0.357	0.026	0.62	0.51	0.003	0.07	0.13	0.62	0.18	-0.25	-0.19	0.51	-0.30	7394	-7.2
5	O015	C	0.357	0.027	0.62	0.52	0.003	0.08	0.12	0.62	0.18	-0.25	-0.19	0.52	-0.31	7387	-6.4
6	O015	C	0.357	0.026	0.63	0.48	0.003	0.07	0.13	0.63	0.17	-0.24	-0.17	0.48	-0.28	7388	-3.9
7	O015	C	0.357	0.027	0.62	0.51	0.004	0.07	0.13	0.62	0.18	-0.26	-0.17	0.51	-0.30	7391	-6.2
8	O015	C	0.357	0.026	0.62	0.49	0.003	0.08	0.13	0.62	0.17	-0.24	-0.17	0.49	-0.29	7394	-5.3
9	O015	C	0.357	0.027	0.63	0.48	0.002	0.07	0.13	0.63	0.17	-0.23	-0.18	0.48	-0.29	7395	-3.7
10	O015	C	0.357	0.027	0.62	0.49	0.003	0.08	0.12	0.62	0.18	-0.25	-0.17	0.49	-0.28	7377	-3.9
11	O015	C	0.357	0.026	0.61	0.51	0.002	0.08	0.13	0.61	0.18	-0.27	-0.18	0.51	-0.30	7377	-8.8
12	O015	C	0.357	0.027	0.62	0.51	0.003	0.08	0.12	0.62	0.17	-0.26	-0.20	0.51	-0.29	7357	-4.9
13	O015	C	0.357	0.027	0.63	0.52	0.003	0.07	0.13	0.63	0.17	-0.27	-0.20	0.52	-0.29	7335	-5.9
14	O015	C	0.357	0.027	0.62	0.51	0.003	0.07	0.13	0.62	0.18	-0.26	-0.18	0.51	-0.30	7320	-6.5
15	O015	C	0.357	0.027	0.62	0.51	0.003	0.08	0.13	0.62	0.18	-0.24	-0.19	0.51	-0.31	7307	-5.4
16	O015	C	0.357	0.027	0.61	0.49	0.003	0.08	0.13	0.61	0.18	-0.25	-0.15	0.49	-0.30	7316	-4.5
17	O015	C	0.357	0.026	0.61	0.50	0.003	0.08	0.13	0.61	0.18	-0.25	-0.17	0.50	-0.29	7330	-6.0
18	O015	C	0.357	0.027	0.62	0.49	0.003	0.08	0.13	0.62	0.17	-0.26	-0.19	0.49	-0.27	7306	-4.2
19	O015	C	0.357	0.027	0.61	0.50	0.004	0.08	0.13	0.61	0.18	-0.25	-0.17	0.50	-0.30	7337	-2.4
20	O015	C	0.357	0.027	0.63	0.49	0.003	0.07	0.12	0.63	0.18	-0.25	-0.18	0.49	-0.29	7354	-3.6
1	O016	B	0.777	0.025	0.54	0.35	0.004	0.16	0.54	0.17	0.13	-0.17	0.35	-0.14	-0.16	7953	9.9
2	O016	B	0.777	0.026	0.54	0.38	0.005	0.16	0.54	0.17	0.14	-0.18	0.38	-0.16	-0.17	7395	7.0
3	O016	B	0.777	0.026	0.55	0.38	0.004	0.17	0.55	0.16	0.12	-0.18	0.38	-0.17	-0.17	7392	7.7
4	O016	B	0.777	0.026	0.55	0.38	0.004	0.16	0.55	0.16	0.12	-0.18	0.38	-0.17	-0.16	7394	8.3
5	O016	B	0.777	0.026	0.55	0.37	0.004	0.16	0.55	0.15	0.13	-0.18	0.37	-0.16	-0.16	7387	8.8
6	O016	B	0.777	0.026	0.55	0.37	0.003	0.16	0.55	0.16	0.13	-0.18	0.37	-0.16	-0.16	7388	8.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O016	B	0.777	0.026	0.55	0.38	0.004	0.16	0.55	0.16	0.13	-0.19	0.38	-0.15	-0.17	7391	6.6
8	O016	B	0.777	0.026	0.55	0.35	0.004	0.17	0.55	0.15	0.13	-0.16	0.35	-0.14	-0.18	7394	9.0
9	O016	B	0.777	0.026	0.56	0.38	0.003	0.16	0.56	0.15	0.13	-0.17	0.38	-0.18	-0.17	7395	6.3
10	O016	B	0.777	0.026	0.56	0.37	0.004	0.17	0.56	0.16	0.12	-0.18	0.37	-0.17	-0.16	7377	9.4
11	O016	B	0.777	0.026	0.54	0.38	0.003	0.16	0.54	0.16	0.13	-0.18	0.38	-0.16	-0.18	7377	6.3
12	O016	B	0.777	0.026	0.54	0.37	0.005	0.16	0.54	0.16	0.13	-0.18	0.37	-0.15	-0.17	7357	8.5
13	O016	B	0.777	0.026	0.54	0.37	0.004	0.17	0.54	0.16	0.13	-0.19	0.37	-0.15	-0.16	7335	8.5
14	O016	B	0.777	0.026	0.55	0.37	0.004	0.16	0.55	0.16	0.12	-0.18	0.37	-0.17	-0.15	7320	7.9
15	O016	B	0.777	0.026	0.55	0.36	0.004	0.17	0.55	0.16	0.12	-0.18	0.36	-0.15	-0.16	7307	9.1
16	O016	B	0.777	0.026	0.54	0.36	0.004	0.17	0.54	0.17	0.13	-0.17	0.36	-0.16	-0.15	7316	8.4
17	O016	B	0.777	0.026	0.54	0.37	0.004	0.17	0.54	0.16	0.13	-0.18	0.37	-0.16	-0.16	7330	7.5
18	O016	B	0.777	0.026	0.54	0.38	0.004	0.17	0.54	0.16	0.14	-0.19	0.38	-0.15	-0.18	7306	7.5
19	O016	B	0.777	0.026	0.55	0.39	0.005	0.16	0.55	0.16	0.13	-0.20	0.39	-0.15	-0.17	7337	7.1
20	O016	B	0.777	0.026	0.55	0.39	0.004	0.15	0.55	0.16	0.14	-0.18	0.39	-0.15	-0.18	7354	7.3
1	O017	C	-0.401	0.027	0.73	0.54	0.004	0.11	0.11	0.73	0.06	-0.29	-0.31	0.54	-0.22	7953	-9.9
2	O017	C	-0.401	0.029	0.75	0.52	0.004	0.09	0.10	0.75	0.06	-0.28	-0.28	0.52	-0.23	7395	-7.9
3	O017	C	-0.401	0.030	0.75	0.54	0.003	0.10	0.09	0.75	0.06	-0.29	-0.28	0.54	-0.25	7392	-7.9
4	O017	C	-0.401	0.029	0.75	0.53	0.004	0.10	0.09	0.75	0.06	-0.29	-0.28	0.53	-0.23	7394	-9.9
5	O017	C	-0.401	0.029	0.75	0.53	0.004	0.10	0.09	0.75	0.06	-0.31	-0.28	0.53	-0.22	7387	-8.9
6	O017	C	-0.401	0.029	0.74	0.51	0.003	0.10	0.10	0.74	0.06	-0.27	-0.28	0.51	-0.22	7388	-7.3
7	O017	C	-0.401	0.029	0.75	0.54	0.004	0.10	0.10	0.75	0.06	-0.29	-0.28	0.54	-0.24	7391	-8.8
8	O017	C	-0.401	0.029	0.74	0.52	0.003	0.10	0.09	0.74	0.06	-0.28	-0.29	0.52	-0.22	7394	-8.6
9	O017	C	-0.401	0.030	0.75	0.53	0.003	0.10	0.09	0.75	0.06	-0.29	-0.28	0.53	-0.25	7395	-8.8
10	O017	C	-0.401	0.029	0.74	0.52	0.003	0.10	0.10	0.74	0.06	-0.31	-0.26	0.52	-0.22	7377	-6.8
11	O017	C	-0.401	0.029	0.75	0.53	0.002	0.10	0.10	0.75	0.06	-0.29	-0.28	0.53	-0.23	7377	-9.9
12	O017	C	-0.401	0.029	0.74	0.53	0.005	0.10	0.09	0.74	0.06	-0.29	-0.29	0.53	-0.22	7357	-7.8
13	O017	C	-0.401	0.030	0.75	0.53	0.004	0.10	0.09	0.75	0.05	-0.29	-0.29	0.53	-0.22	7335	-7.2
14	O017	C	-0.401	0.029	0.75	0.52	0.004	0.10	0.10	0.75	0.05	-0.28	-0.29	0.52	-0.21	7320	-8.7
15	O017	C	-0.401	0.029	0.75	0.53	0.003	0.10	0.09	0.75	0.06	-0.28	-0.27	0.53	-0.26	7307	-8.1
16	O017	C	-0.401	0.029	0.75	0.54	0.003	0.09	0.09	0.75	0.06	-0.29	-0.28	0.54	-0.25	7316	-9.9
17	O017	C	-0.401	0.029	0.74	0.55	0.004	0.09	0.10	0.74	0.06	-0.29	-0.30	0.55	-0.25	7330	-9.9
18	O017	C	-0.401	0.030	0.74	0.54	0.003	0.10	0.09	0.74	0.06	-0.31	-0.29	0.54	-0.22	7306	-8.8
19	O017	C	-0.401	0.030	0.74	0.54	0.004	0.10	0.09	0.74	0.06	-0.30	-0.28	0.54	-0.25	7337	-7.7
20	O017	C	-0.401	0.030	0.74	0.54	0.004	0.09	0.10	0.74	0.06	-0.30	-0.29	0.54	-0.23	7354	-7.4
1	O018	B	0.133	0.026	0.63	0.54	0.003	0.05	0.63	0.14	0.17	-0.12	0.54	-0.36	-0.27	7953	-8.9
2	O018	B	0.133	0.027	0.65	0.51	0.004	0.06	0.65	0.13	0.16	-0.11	0.51	-0.34	-0.26	7395	-4.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O018	B	0.133	0.028	0.65	0.53	0.004	0.05	0.65	0.13	0.16	-0.11	0.53	-0.36	-0.28	7392	-5.6
4	O018	B	0.133	0.027	0.65	0.52	0.004	0.05	0.65	0.13	0.17	-0.13	0.52	-0.33	-0.27	7394	-5.2
5	O018	B	0.133	0.027	0.66	0.54	0.003	0.05	0.66	0.13	0.15	-0.14	0.54	-0.36	-0.27	7387	-6.8
6	O018	B	0.133	0.027	0.66	0.51	0.003	0.05	0.66	0.13	0.16	-0.12	0.51	-0.34	-0.27	7388	-5.9
7	O018	B	0.133	0.027	0.65	0.53	0.003	0.05	0.65	0.13	0.16	-0.13	0.53	-0.34	-0.28	7391	-6.3
8	O018	B	0.133	0.027	0.65	0.52	0.003	0.05	0.65	0.13	0.16	-0.11	0.52	-0.35	-0.27	7394	-5.4
9	O018	B	0.133	0.027	0.66	0.50	0.004	0.05	0.66	0.13	0.15	-0.12	0.50	-0.34	-0.26	7395	-4.4
10	O018	B	0.133	0.027	0.65	0.52	0.003	0.05	0.65	0.14	0.16	-0.10	0.52	-0.36	-0.26	7377	-4.2
11	O018	B	0.133	0.027	0.65	0.51	0.002	0.05	0.65	0.14	0.16	-0.10	0.51	-0.34	-0.28	7377	-8.8
12	O018	B	0.133	0.027	0.65	0.51	0.004	0.06	0.65	0.13	0.16	-0.13	0.51	-0.32	-0.26	7357	-2.4
13	O018	B	0.133	0.028	0.66	0.53	0.003	0.05	0.66	0.13	0.16	-0.12	0.53	-0.36	-0.27	7335	-3.9
14	O018	B	0.133	0.027	0.66	0.51	0.004	0.05	0.66	0.13	0.16	-0.10	0.51	-0.35	-0.26	7320	-5.9
15	O018	B	0.133	0.027	0.66	0.52	0.003	0.05	0.66	0.13	0.16	-0.12	0.52	-0.34	-0.26	7307	-5.7
16	O018	B	0.133	0.027	0.64	0.52	0.004	0.05	0.64	0.14	0.16	-0.11	0.52	-0.34	-0.28	7316	-5.3
17	O018	B	0.133	0.027	0.65	0.53	0.004	0.06	0.65	0.14	0.15	-0.13	0.53	-0.35	-0.27	7330	-6.9
18	O018	B	0.133	0.028	0.66	0.53	0.003	0.05	0.66	0.13	0.16	-0.12	0.53	-0.34	-0.29	7306	-5.7
19	O018	B	0.133	0.027	0.65	0.53	0.004	0.05	0.65	0.14	0.16	-0.13	0.53	-0.33	-0.27	7337	-4.8
20	O018	B	0.133	0.028	0.65	0.53	0.004	0.05	0.65	0.13	0.16	-0.14	0.53	-0.36	-0.26	7354	-3.5
1	O019	A	-0.571	0.028	0.74	0.46	0.005	0.74	0.08	0.11	0.07	0.46	-0.26	-0.26	-0.17	7953	-2.7
2	O019	A	-0.571	0.030	0.77	0.42	0.005	0.77	0.06	0.10	0.07	0.42	-0.23	-0.23	-0.18	7395	0.1
3	O019	A	-0.571	0.031	0.76	0.44	0.004	0.76	0.06	0.10	0.07	0.44	-0.25	-0.24	-0.19	7392	2.1
4	O019	A	-0.571	0.030	0.77	0.44	0.003	0.77	0.07	0.10	0.07	0.44	-0.23	-0.24	-0.19	7394	-1.1
5	O019	A	-0.571	0.030	0.77	0.45	0.003	0.77	0.06	0.10	0.07	0.45	-0.25	-0.25	-0.20	7387	-1.5
6	O019	A	-0.571	0.030	0.77	0.43	0.004	0.77	0.06	0.10	0.07	0.43	-0.24	-0.24	-0.19	7388	-0.3
7	O019	A	-0.571	0.030	0.77	0.45	0.004	0.77	0.06	0.09	0.07	0.45	-0.24	-0.25	-0.20	7391	-2.6
8	O019	A	-0.571	0.030	0.76	0.45	0.005	0.76	0.07	0.10	0.07	0.45	-0.24	-0.27	-0.19	7394	-1.5
9	O019	A	-0.571	0.030	0.77	0.45	0.003	0.77	0.06	0.10	0.07	0.45	-0.23	-0.27	-0.20	7395	-0.0
10	O019	A	-0.571	0.030	0.76	0.44	0.003	0.76	0.07	0.10	0.07	0.44	-0.24	-0.25	-0.19	7377	-0.2
11	O019	A	-0.571	0.029	0.76	0.44	0.002	0.76	0.07	0.10	0.07	0.44	-0.25	-0.26	-0.18	7377	-2.8
12	O019	A	-0.571	0.030	0.76	0.45	0.004	0.76	0.06	0.11	0.07	0.45	-0.24	-0.26	-0.19	7357	2.4
13	O019	A	-0.571	0.031	0.77	0.44	0.003	0.77	0.07	0.09	0.07	0.44	-0.26	-0.24	-0.19	7335	0.2
14	O019	A	-0.571	0.030	0.77	0.43	0.005	0.77	0.06	0.10	0.07	0.43	-0.22	-0.25	-0.19	7320	-1.8
15	O019	A	-0.571	0.030	0.77	0.46	0.004	0.77	0.06	0.10	0.07	0.46	-0.24	-0.27	-0.19	7307	-2.1
16	O019	A	-0.571	0.030	0.76	0.44	0.004	0.76	0.07	0.10	0.07	0.44	-0.24	-0.24	-0.20	7316	-1.8
17	O019	A	-0.571	0.030	0.76	0.44	0.004	0.76	0.07	0.10	0.07	0.44	-0.24	-0.25	-0.18	7330	-0.9
18	O019	A	-0.571	0.031	0.77	0.43	0.004	0.77	0.06	0.10	0.07	0.43	-0.24	-0.25	-0.18	7306	-0.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O019	A	-0.571	0.030	0.76	0.44	0.004	0.76	0.06	0.10	0.07	0.44	-0.23	-0.25	-0.17	7337	1.0
20	O019	A	-0.571	0.031	0.77	0.45	0.005	0.77	0.06	0.10	0.06	0.45	-0.23	-0.28	-0.17	7354	-0.9
1	O020	B	-0.165	0.026	0.68	0.46	0.003	0.20	0.68	0.07	0.05	-0.30	0.46	-0.18	-0.20	7953	-2.1
2	O020	B	-0.165	0.028	0.72	0.44	0.003	0.19	0.72	0.06	0.03	-0.32	0.44	-0.17	-0.15	7395	-0.7
3	O020	B	-0.165	0.029	0.71	0.43	0.002	0.19	0.71	0.07	0.04	-0.30	0.43	-0.19	-0.16	7392	2.8
4	O020	B	-0.165	0.028	0.71	0.44	0.003	0.19	0.71	0.07	0.04	-0.32	0.44	-0.15	-0.18	7394	0.2
5	O020	B	-0.165	0.028	0.71	0.44	0.003	0.18	0.71	0.07	0.03	-0.30	0.44	-0.17	-0.17	7387	0.7
6	O020	B	-0.165	0.028	0.71	0.42	0.003	0.19	0.71	0.06	0.03	-0.32	0.42	-0.13	-0.15	7388	0.3
7	O020	B	-0.165	0.028	0.71	0.44	0.004	0.19	0.71	0.07	0.04	-0.30	0.44	-0.18	-0.17	7391	0.1
8	O020	B	-0.165	0.028	0.71	0.43	0.002	0.19	0.71	0.07	0.03	-0.31	0.43	-0.15	-0.17	7394	0.5
9	O020	B	-0.165	0.028	0.71	0.44	0.002	0.18	0.71	0.07	0.04	-0.32	0.44	-0.15	-0.17	7395	1.8
10	O020	B	-0.165	0.028	0.71	0.45	0.003	0.18	0.71	0.06	0.04	-0.32	0.45	-0.17	-0.16	7377	-0.6
11	O020	B	-0.165	0.028	0.71	0.44	0.002	0.19	0.71	0.06	0.03	-0.32	0.44	-0.15	-0.17	7377	-3.4
12	O020	B	-0.165	0.028	0.71	0.44	0.003	0.19	0.71	0.07	0.04	-0.32	0.44	-0.15	-0.16	7357	2.1
13	O020	B	-0.165	0.029	0.72	0.43	0.003	0.19	0.72	0.06	0.03	-0.34	0.43	-0.12	-0.17	7335	3.6
14	O020	B	-0.165	0.028	0.72	0.44	0.004	0.18	0.72	0.06	0.03	-0.30	0.44	-0.18	-0.17	7320	-1.2
15	O020	B	-0.165	0.028	0.71	0.44	0.004	0.19	0.71	0.06	0.03	-0.32	0.44	-0.17	-0.16	7307	0.4
16	O020	B	-0.165	0.028	0.70	0.43	0.003	0.19	0.70	0.07	0.03	-0.31	0.43	-0.16	-0.15	7316	0.1
17	O020	B	-0.165	0.028	0.72	0.44	0.004	0.18	0.72	0.07	0.03	-0.32	0.44	-0.17	-0.15	7330	-2.5
18	O020	B	-0.165	0.029	0.71	0.43	0.003	0.19	0.71	0.07	0.03	-0.31	0.43	-0.16	-0.17	7306	1.0
19	O020	B	-0.165	0.029	0.71	0.46	0.003	0.19	0.71	0.07	0.03	-0.34	0.46	-0.17	-0.16	7337	-0.3
20	O020	B	-0.165	0.029	0.71	0.45	0.003	0.19	0.71	0.06	0.03	-0.32	0.45	-0.17	-0.18	7354	1.3
1	O021	B	-0.998	0.031	0.82	0.35	0.003	0.09	0.82	0.05	0.04	-0.22	0.35	-0.19	-0.12	7953	-0.8
2	O021	B	-0.998	0.033	0.83	0.35	0.003	0.08	0.83	0.05	0.03	-0.23	0.35	-0.18	-0.12	7395	0.5
3	O021	B	-0.998	0.034	0.83	0.32	0.003	0.09	0.83	0.05	0.04	-0.22	0.32	-0.15	-0.10	7392	4.2
4	O021	B	-0.998	0.033	0.83	0.31	0.003	0.08	0.83	0.05	0.04	-0.21	0.31	-0.17	-0.10	7394	2.4
5	O021	B	-0.998	0.033	0.83	0.31	0.003	0.08	0.83	0.05	0.04	-0.21	0.31	-0.16	-0.10	7387	3.0
6	O021	B	-0.998	0.033	0.84	0.32	0.002	0.08	0.84	0.05	0.03	-0.21	0.32	-0.18	-0.10	7388	1.5
7	O021	B	-0.998	0.033	0.83	0.35	0.004	0.09	0.83	0.05	0.03	-0.24	0.35	-0.17	-0.11	7391	2.5
8	O021	B	-0.998	0.033	0.83	0.32	0.003	0.08	0.83	0.05	0.03	-0.21	0.32	-0.18	-0.10	7394	2.6
9	O021	B	-0.998	0.034	0.84	0.32	0.002	0.08	0.84	0.05	0.04	-0.22	0.32	-0.16	-0.12	7395	3.0
10	O021	B	-0.998	0.033	0.83	0.35	0.003	0.08	0.83	0.05	0.03	-0.23	0.35	-0.18	-0.13	7377	0.4
11	O021	B	-0.998	0.032	0.82	0.33	0.002	0.09	0.82	0.05	0.04	-0.24	0.33	-0.17	-0.11	7377	1.1
12	O021	B	-0.998	0.033	0.83	0.33	0.002	0.08	0.83	0.05	0.03	-0.22	0.33	-0.18	-0.10	7357	3.6
13	O021	B	-0.998	0.034	0.83	0.33	0.003	0.08	0.83	0.06	0.04	-0.23	0.33	-0.17	-0.10	7335	3.5
14	O021	B	-0.998	0.033	0.83	0.32	0.004	0.08	0.83	0.05	0.03	-0.20	0.32	-0.18	-0.10	7320	1.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O021	B	-0.998	0.033	0.84	0.33	0.004	0.08	0.84	0.05	0.03	-0.23	0.33	-0.18	-0.09	7307	1.5
16	O021	B	-0.998	0.033	0.83	0.34	0.003	0.08	0.83	0.05	0.04	-0.21	0.34	-0.19	-0.11	7316	2.3
17	O021	B	-0.998	0.033	0.83	0.35	0.003	0.09	0.83	0.05	0.04	-0.22	0.35	-0.20	-0.11	7330	-0.3
18	O021	B	-0.998	0.034	0.84	0.33	0.003	0.08	0.84	0.05	0.03	-0.22	0.33	-0.18	-0.11	7306	2.4
19	O021	B	-0.998	0.033	0.84	0.33	0.003	0.08	0.84	0.05	0.03	-0.23	0.33	-0.18	-0.10	7337	3.3
20	O021	B	-0.998	0.034	0.83	0.33	0.003	0.08	0.83	0.05	0.04	-0.22	0.33	-0.18	-0.09	7354	4.3
1	O022	D	0.851	0.025	0.50	0.44	0.005	0.17	0.15	0.17	0.50	-0.19	-0.19	-0.20	0.44	7953	2.8
2	O022	D	0.851	0.026	0.53	0.45	0.005	0.17	0.14	0.16	0.53	-0.18	-0.19	-0.22	0.45	7395	1.2
3	O022	D	0.851	0.026	0.53	0.46	0.004	0.17	0.14	0.16	0.53	-0.19	-0.19	-0.23	0.46	7392	1.4
4	O022	D	0.851	0.026	0.53	0.46	0.005	0.16	0.14	0.17	0.53	-0.18	-0.18	-0.25	0.46	7394	0.3
5	O022	D	0.851	0.026	0.52	0.47	0.005	0.16	0.14	0.17	0.52	-0.19	-0.18	-0.25	0.47	7387	-0.7
6	O022	D	0.851	0.026	0.53	0.45	0.003	0.17	0.14	0.16	0.53	-0.20	-0.18	-0.23	0.45	7388	0.4
7	O022	D	0.851	0.026	0.53	0.44	0.005	0.16	0.15	0.16	0.53	-0.18	-0.18	-0.23	0.44	7391	1.2
8	O022	D	0.851	0.026	0.52	0.45	0.004	0.17	0.14	0.17	0.52	-0.20	-0.17	-0.23	0.45	7394	-0.1
9	O022	D	0.851	0.026	0.53	0.45	0.004	0.17	0.14	0.16	0.53	-0.19	-0.18	-0.24	0.45	7395	1.2
10	O022	D	0.851	0.026	0.53	0.46	0.005	0.16	0.14	0.17	0.53	-0.19	-0.19	-0.23	0.46	7377	0.6
11	O022	D	0.851	0.026	0.53	0.45	0.003	0.16	0.14	0.17	0.53	-0.19	-0.19	-0.23	0.45	7377	-0.5
12	O022	D	0.851	0.026	0.53	0.46	0.004	0.16	0.14	0.17	0.53	-0.18	-0.19	-0.23	0.46	7357	1.1
13	O022	D	0.851	0.026	0.52	0.45	0.004	0.17	0.15	0.16	0.52	-0.18	-0.19	-0.23	0.45	7335	1.9
14	O022	D	0.851	0.026	0.53	0.45	0.005	0.17	0.14	0.16	0.53	-0.18	-0.19	-0.22	0.45	7320	0.3
15	O022	D	0.851	0.026	0.52	0.47	0.005	0.17	0.15	0.16	0.52	-0.19	-0.19	-0.23	0.47	7307	-0.2
16	O022	D	0.851	0.026	0.52	0.44	0.004	0.17	0.15	0.16	0.52	-0.19	-0.17	-0.22	0.44	7316	1.3
17	O022	D	0.851	0.026	0.52	0.45	0.005	0.17	0.15	0.16	0.52	-0.19	-0.20	-0.20	0.45	7330	1.6
18	O022	D	0.851	0.026	0.53	0.45	0.004	0.17	0.14	0.15	0.53	-0.20	-0.19	-0.21	0.45	7306	2.2
19	O022	D	0.851	0.026	0.53	0.46	0.004	0.17	0.14	0.16	0.53	-0.20	-0.18	-0.22	0.46	7337	0.4
20	O022	D	0.851	0.026	0.52	0.44	0.004	0.17	0.14	0.16	0.52	-0.17	-0.18	-0.23	0.44	7354	3.6
1	O051	C	0.175	0.026	0.63	0.53	0.004	0.19	0.14	0.63	0.04	-0.39	-0.21	0.53	-0.11	7953	-7.4
2	O051	C	0.175	0.027	0.65	0.50	0.005	0.18	0.14	0.65	0.03	-0.37	-0.21	0.50	-0.10	7395	-3.4
3	O051	C	0.175	0.027	0.65	0.52	0.003	0.17	0.14	0.65	0.03	-0.39	-0.20	0.52	-0.13	7392	-0.7
4	O051	C	0.175	0.027	0.65	0.50	0.004	0.18	0.13	0.65	0.03	-0.37	-0.19	0.50	-0.14	7394	-3.3
5	O051	C	0.175	0.027	0.65	0.51	0.004	0.18	0.14	0.65	0.03	-0.36	-0.21	0.51	-0.13	7387	-2.4
6	O051	C	0.175	0.027	0.65	0.51	0.002	0.18	0.13	0.65	0.04	-0.38	-0.21	0.51	-0.12	7388	-3.4
7	O051	C	0.175	0.027	0.65	0.52	0.004	0.18	0.14	0.65	0.03	-0.39	-0.22	0.52	-0.11	7391	-3.0
8	O051	C	0.175	0.027	0.66	0.52	0.004	0.17	0.13	0.66	0.04	-0.40	-0.20	0.52	-0.12	7394	-6.3
9	O051	C	0.175	0.027	0.67	0.51	0.003	0.16	0.13	0.67	0.03	-0.36	-0.23	0.51	-0.12	7395	-3.5
10	O051	C	0.175	0.027	0.65	0.52	0.003	0.18	0.14	0.65	0.03	-0.38	-0.22	0.52	-0.11	7377	-2.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O051	C	0.175	0.026	0.65	0.52	0.003	0.17	0.14	0.65	0.04	-0.39	-0.22	0.52	-0.13	7377	-8.7
12	O051	C	0.175	0.027	0.65	0.52	0.004	0.17	0.14	0.65	0.03	-0.37	-0.23	0.52	-0.13	7357	-2.9
13	O051	C	0.175	0.028	0.66	0.52	0.004	0.18	0.13	0.66	0.03	-0.40	-0.19	0.52	-0.13	7335	-3.0
14	O051	C	0.175	0.027	0.66	0.52	0.005	0.17	0.14	0.66	0.04	-0.37	-0.21	0.52	-0.15	7320	-4.0
15	O051	C	0.175	0.027	0.65	0.54	0.004	0.18	0.14	0.65	0.03	-0.42	-0.20	0.54	-0.13	7307	-5.0
16	O051	C	0.175	0.027	0.65	0.52	0.003	0.17	0.14	0.65	0.04	-0.37	-0.24	0.52	-0.13	7316	-5.6
17	O051	C	0.175	0.027	0.65	0.52	0.004	0.18	0.14	0.65	0.04	-0.37	-0.22	0.52	-0.13	7330	-3.0
18	O051	C	0.175	0.027	0.66	0.51	0.003	0.16	0.13	0.66	0.04	-0.37	-0.22	0.51	-0.13	7306	-3.6
19	O051	C	0.175	0.027	0.65	0.52	0.004	0.18	0.14	0.65	0.03	-0.36	-0.24	0.52	-0.11	7337	-1.7
20	O051	C	0.175	0.027	0.66	0.51	0.004	0.17	0.13	0.66	0.03	-0.41	-0.19	0.51	-0.11	7354	-1.8
1	O052	D	0.175	0.026	0.66	0.47	0.007	0.09	0.10	0.15	0.66	-0.27	-0.25	-0.18	0.47	7953	-2.7
2	O052	D	0.175	0.028	0.69	0.43	0.004	0.07	0.09	0.15	0.69	-0.24	-0.22	-0.18	0.43	7395	0.9
3	O052	D	0.175	0.028	0.68	0.43	0.004	0.07	0.09	0.15	0.68	-0.25	-0.25	-0.17	0.43	7392	4.5
4	O052	D	0.175	0.027	0.68	0.43	0.005	0.07	0.10	0.14	0.68	-0.23	-0.24	-0.17	0.43	7394	2.8
5	O052	D	0.175	0.028	0.68	0.42	0.004	0.08	0.09	0.15	0.68	-0.26	-0.25	-0.15	0.42	7387	3.3
6	O052	D	0.175	0.028	0.69	0.43	0.004	0.07	0.09	0.14	0.69	-0.24	-0.24	-0.19	0.43	7388	0.0
7	O052	D	0.175	0.028	0.68	0.41	0.004	0.08	0.10	0.14	0.68	-0.26	-0.21	-0.16	0.41	7391	3.7
8	O052	D	0.175	0.027	0.67	0.41	0.004	0.08	0.10	0.15	0.67	-0.24	-0.25	-0.14	0.41	7394	5.3
9	O052	D	0.175	0.028	0.70	0.45	0.004	0.07	0.10	0.13	0.70	-0.25	-0.25	-0.18	0.45	7395	-0.9
10	O052	D	0.175	0.028	0.69	0.45	0.004	0.08	0.09	0.14	0.69	-0.26	-0.23	-0.20	0.45	7377	0.2
11	O052	D	0.175	0.027	0.69	0.43	0.004	0.07	0.09	0.15	0.69	-0.25	-0.24	-0.17	0.43	7377	-2.2
12	O052	D	0.175	0.028	0.72	0.47	0.003	0.06	0.09	0.13	0.72	-0.25	-0.26	-0.21	0.47	7357	-3.4
13	O052	D	0.175	0.028	0.69	0.43	0.005	0.08	0.09	0.14	0.69	-0.26	-0.23	-0.16	0.43	7335	4.0
14	O052	D	0.175	0.028	0.68	0.42	0.005	0.08	0.09	0.15	0.68	-0.24	-0.24	-0.16	0.42	7320	3.9
15	O052	D	0.175	0.028	0.68	0.44	0.004	0.08	0.10	0.15	0.68	-0.25	-0.25	-0.17	0.44	7307	2.6
16	O052	D	0.175	0.028	0.67	0.42	0.005	0.08	0.09	0.16	0.67	-0.23	-0.22	-0.19	0.42	7316	3.6
17	O052	D	0.175	0.027	0.68	0.44	0.003	0.07	0.09	0.16	0.68	-0.25	-0.23	-0.19	0.44	7330	1.3
18	O052	D	0.175	0.028	0.69	0.46	0.004	0.08	0.09	0.14	0.69	-0.27	-0.23	-0.19	0.46	7306	-0.5
19	O052	D	0.175	0.028	0.68	0.42	0.007	0.08	0.09	0.15	0.68	-0.25	-0.23	-0.16	0.42	7337	3.9
20	O052	D	0.175	0.028	0.68	0.41	0.006	0.07	0.10	0.15	0.68	-0.24	-0.21	-0.17	0.41	7354	5.5
1	O053	B	-0.025	0.025	0.57	0.47	0.003	0.17	0.57	0.11	0.14	-0.06	0.47	-0.33	-0.28	7953	-3.2
2	O053	B	-0.025	0.026	0.58	0.45	0.003	0.18	0.58	0.10	0.14	-0.06	0.45	-0.31	-0.30	7395	-0.1
3	O053	B	-0.025	0.027	0.59	0.45	0.002	0.17	0.59	0.10	0.14	-0.05	0.45	-0.31	-0.30	7392	1.4
4	O053	B	-0.025	0.026	0.59	0.46	0.002	0.17	0.59	0.10	0.14	-0.07	0.46	-0.32	-0.29	7394	-0.9
5	O053	B	-0.025	0.026	0.59	0.47	0.002	0.18	0.59	0.10	0.14	-0.07	0.47	-0.32	-0.30	7387	-1.4
6	O053	B	-0.025	0.026	0.59	0.47	0.002	0.17	0.59	0.10	0.14	-0.05	0.47	-0.32	-0.32	7388	-2.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O053	B	-0.025	0.026	0.59	0.47	0.003	0.17	0.59	0.10	0.14	-0.07	0.47	-0.33	-0.30	7391	-2.2
8	O053	B	-0.025	0.026	0.60	0.48	0.002	0.16	0.60	0.10	0.14	-0.07	0.48	-0.34	-0.31	7394	-3.9
9	O053	B	-0.025	0.026	0.59	0.48	0.004	0.17	0.59	0.10	0.13	-0.07	0.48	-0.33	-0.30	7395	-2.4
10	O053	B	-0.025	0.026	0.60	0.47	0.003	0.16	0.60	0.10	0.14	-0.05	0.47	-0.32	-0.31	7377	-1.0
11	O053	B	-0.025	0.026	0.58	0.46	0.002	0.18	0.58	0.10	0.14	-0.08	0.46	-0.32	-0.28	7377	-3.2
12	O053	B	-0.025	0.027	0.59	0.46	0.003	0.17	0.59	0.10	0.14	-0.05	0.46	-0.32	-0.31	7357	0.6
13	O053	B	-0.025	0.027	0.59	0.47	0.002	0.17	0.59	0.10	0.14	-0.07	0.47	-0.34	-0.29	7335	0.3
14	O053	B	-0.025	0.026	0.59	0.47	0.004	0.17	0.59	0.10	0.14	-0.07	0.47	-0.32	-0.29	7320	-1.1
15	O053	B	-0.025	0.027	0.58	0.47	0.002	0.17	0.58	0.11	0.14	-0.05	0.47	-0.34	-0.30	7307	-0.3
16	O053	B	-0.025	0.026	0.59	0.45	0.002	0.17	0.59	0.10	0.14	-0.05	0.45	-0.32	-0.30	7316	-1.5
17	O053	B	-0.025	0.026	0.59	0.48	0.002	0.17	0.59	0.10	0.14	-0.07	0.48	-0.33	-0.30	7330	-3.3
18	O053	B	-0.025	0.027	0.59	0.47	0.003	0.17	0.59	0.10	0.14	-0.08	0.47	-0.32	-0.30	7306	-1.4
19	O053	B	-0.025	0.027	0.60	0.46	0.004	0.16	0.60	0.10	0.13	-0.05	0.46	-0.34	-0.30	7337	0.1
20	O053	B	-0.025	0.027	0.60	0.47	0.003	0.16	0.60	0.10	0.14	-0.06	0.47	-0.32	-0.30	7354	-0.2
1	O054	A	0.506	0.033	0.85	0.36	0.002	0.85	0.12	0.01	0.01	0.36	-0.26	-0.16	-0.17	7953	-1.2
2	O054	A	0.506	0.036	0.86	0.34	0.002	0.86	0.12	0.01	0.01	0.34	-0.26	-0.15	-0.15	7395	-0.8
3	O054	A	0.506	0.037	0.86	0.36	0.001	0.86	0.11	0.01	0.01	0.36	-0.26	-0.16	-0.18	7392	0.4
4	O054	A	0.506	0.036	0.87	0.33	0.001	0.87	0.11	0.01	0.01	0.33	-0.25	-0.14	-0.14	7394	-1.1
5	O054	A	0.506	0.036	0.86	0.33	0.002	0.86	0.11	0.01	0.01	0.33	-0.24	-0.14	-0.19	7387	-0.1
6	O054	A	0.506	0.037	0.86	0.35	0.001	0.86	0.12	0.01	0.01	0.35	-0.26	-0.16	-0.16	7388	0.1
7	O054	A	0.506	0.037	0.87	0.36	0.002	0.87	0.11	0.01	0.01	0.36	-0.26	-0.18	-0.14	7391	-0.2
8	O054	A	0.506	0.036	0.86	0.35	0.001	0.86	0.12	0.01	0.01	0.35	-0.27	-0.15	-0.15	7394	0.2
9	O054	A	0.506	0.037	0.87	0.34	0.002	0.87	0.11	0.01	0.01	0.34	-0.26	-0.15	-0.15	7395	-0.1
10	O054	A	0.506	0.037	0.86	0.35	0.002	0.86	0.12	0.01	0.01	0.35	-0.27	-0.15	-0.15	7377	1.3
11	O054	A	0.506	0.035	0.87	0.35	0.001	0.87	0.11	0.01	0.01	0.35	-0.27	-0.17	-0.12	7377	-2.8
12	O054	A	0.506	0.036	0.88	0.37	0.002	0.88	0.10	0.01	0.01	0.37	-0.29	-0.15	-0.15	7357	-4.0
13	O054	A	0.506	0.038	0.87	0.35	0.001	0.87	0.11	0.01	0.01	0.35	-0.27	-0.16	-0.16	7335	-0.3
14	O054	A	0.506	0.036	0.86	0.34	0.002	0.86	0.12	0.01	0.01	0.34	-0.26	-0.13	-0.16	7320	-0.0
15	O054	A	0.506	0.037	0.87	0.33	0.002	0.87	0.11	0.01	0.01	0.33	-0.25	-0.15	-0.15	7307	-0.6
16	O054	A	0.506	0.037	0.86	0.35	0.002	0.86	0.12	0.01	0.01	0.35	-0.27	-0.16	-0.14	7316	-1.0
17	O054	A	0.506	0.036	0.87	0.36	0.002	0.87	0.11	0.01	0.01	0.36	-0.27	-0.14	-0.17	7330	-2.0
18	O054	A	0.506	0.037	0.87	0.33	0.002	0.87	0.11	0.01	0.01	0.33	-0.25	-0.14	-0.14	7306	0.5
19	O054	A	0.506	0.037	0.86	0.35	0.002	0.86	0.11	0.01	0.01	0.35	-0.26	-0.15	-0.15	7337	0.8
20	O054	A	0.506	0.037	0.87	0.34	0.002	0.87	0.11	0.01	0.01	0.34	-0.25	-0.16	-0.17	7354	0.8
1	O055	A	-1.342	0.027	0.70	0.39	0.003	0.70	0.14	0.11	0.04	0.39	-0.17	-0.24	-0.17	7953	4.6
2	O055	A	-1.342	0.028	0.72	0.36	0.002	0.72	0.14	0.10	0.04	0.36	-0.17	-0.21	-0.16	7395	7.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O055	A	-1.342	0.029	0.73	0.36	0.002	0.73	0.14	0.10	0.04	0.36	-0.19	-0.20	-0.17	7392	8.0
4	O055	A	-1.342	0.028	0.72	0.37	0.002	0.72	0.14	0.10	0.04	0.37	-0.18	-0.23	-0.16	7394	6.1
5	O055	A	-1.342	0.028	0.72	0.37	0.002	0.72	0.14	0.09	0.05	0.37	-0.18	-0.22	-0.16	7387	7.1
6	O055	A	-1.342	0.028	0.72	0.36	0.001	0.72	0.14	0.09	0.05	0.36	-0.17	-0.21	-0.19	7388	7.0
7	O055	A	-1.342	0.029	0.73	0.37	0.003	0.73	0.14	0.09	0.04	0.37	-0.18	-0.21	-0.18	7391	6.3
8	O055	A	-1.342	0.028	0.71	0.36	0.001	0.71	0.15	0.09	0.04	0.36	-0.19	-0.20	-0.17	7394	9.0
9	O055	A	-1.342	0.029	0.72	0.37	0.002	0.72	0.14	0.10	0.04	0.37	-0.18	-0.22	-0.18	7395	6.0
10	O055	A	-1.342	0.029	0.72	0.38	0.002	0.72	0.14	0.10	0.04	0.38	-0.16	-0.25	-0.18	7377	6.1
11	O055	A	-1.342	0.028	0.72	0.37	0.001	0.72	0.14	0.10	0.04	0.37	-0.21	-0.20	-0.16	7377	3.2
12	O055	A	-1.342	0.029	0.73	0.39	0.002	0.73	0.14	0.09	0.04	0.39	-0.19	-0.23	-0.17	7357	6.1
13	O055	A	-1.342	0.029	0.71	0.38	0.001	0.71	0.15	0.10	0.04	0.38	-0.18	-0.21	-0.19	7335	9.9
14	O055	A	-1.342	0.028	0.72	0.39	0.002	0.72	0.14	0.10	0.05	0.39	-0.19	-0.23	-0.17	7320	4.9
15	O055	A	-1.342	0.029	0.72	0.37	0.002	0.72	0.13	0.10	0.04	0.37	-0.18	-0.21	-0.20	7307	5.7
16	O055	A	-1.342	0.028	0.72	0.36	0.002	0.72	0.14	0.10	0.04	0.36	-0.17	-0.21	-0.18	7316	7.5
17	O055	A	-1.342	0.028	0.72	0.36	0.002	0.72	0.14	0.10	0.04	0.36	-0.18	-0.21	-0.16	7330	6.6
18	O055	A	-1.342	0.029	0.72	0.36	0.002	0.72	0.14	0.10	0.04	0.36	-0.19	-0.21	-0.15	7306	8.6
19	O055	A	-1.342	0.029	0.72	0.36	0.003	0.72	0.13	0.10	0.04	0.36	-0.17	-0.21	-0.16	7337	9.8
20	O055	A	-1.342	0.029	0.72	0.37	0.002	0.72	0.15	0.10	0.04	0.37	-0.19	-0.22	-0.15	7354	8.4
1	O056	D	-0.215	0.025	0.60	0.58	0.003	0.06	0.13	0.21	0.60	-0.21	-0.30	-0.32	0.58	7953	-9.9
2	O056	D	-0.215	0.027	0.63	0.57	0.003	0.05	0.12	0.20	0.63	-0.19	-0.29	-0.34	0.57	7395	-9.9
3	O056	D	-0.215	0.027	0.64	0.59	0.002	0.05	0.12	0.19	0.64	-0.20	-0.29	-0.36	0.59	7392	-9.9
4	O056	D	-0.215	0.027	0.63	0.57	0.003	0.05	0.12	0.20	0.63	-0.21	-0.28	-0.34	0.57	7394	-9.9
5	O056	D	-0.215	0.027	0.63	0.58	0.003	0.05	0.12	0.20	0.63	-0.20	-0.29	-0.35	0.58	7387	-9.9
6	O056	D	-0.215	0.027	0.64	0.58	0.002	0.05	0.11	0.20	0.64	-0.19	-0.29	-0.36	0.58	7388	-9.9
7	O056	D	-0.215	0.027	0.64	0.58	0.003	0.05	0.11	0.19	0.64	-0.22	-0.28	-0.34	0.58	7391	-9.9
8	O056	D	-0.215	0.027	0.64	0.58	0.002	0.04	0.12	0.20	0.64	-0.20	-0.27	-0.37	0.58	7394	-9.9
9	O056	D	-0.215	0.027	0.65	0.59	0.002	0.05	0.12	0.19	0.65	-0.21	-0.30	-0.36	0.59	7395	-9.9
10	O056	D	-0.215	0.027	0.63	0.57	0.003	0.05	0.11	0.21	0.63	-0.22	-0.25	-0.35	0.57	7377	-9.9
11	O056	D	-0.215	0.026	0.64	0.57	0.002	0.05	0.12	0.20	0.64	-0.20	-0.28	-0.34	0.57	7377	-9.9
12	O056	D	-0.215	0.027	0.63	0.57	0.004	0.05	0.12	0.20	0.63	-0.20	-0.27	-0.34	0.57	7357	-8.6
13	O056	D	-0.215	0.027	0.64	0.59	0.002	0.05	0.11	0.20	0.64	-0.21	-0.29	-0.35	0.59	7335	-9.9
14	O056	D	-0.215	0.027	0.64	0.59	0.003	0.05	0.12	0.19	0.64	-0.20	-0.30	-0.36	0.59	7320	-9.9
15	O056	D	-0.215	0.027	0.64	0.57	0.002	0.05	0.12	0.19	0.64	-0.21	-0.29	-0.33	0.57	7307	-9.9
16	O056	D	-0.215	0.027	0.64	0.58	0.002	0.05	0.12	0.19	0.64	-0.20	-0.30	-0.34	0.58	7316	-9.9
17	O056	D	-0.215	0.027	0.64	0.59	0.003	0.05	0.11	0.20	0.64	-0.21	-0.29	-0.36	0.59	7330	-9.9
18	O056	D	-0.215	0.027	0.64	0.58	0.003	0.04	0.12	0.20	0.64	-0.20	-0.28	-0.36	0.58	7306	-9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O056	D	-0.215	0.027	0.64	0.57	0.004	0.05	0.11	0.20	0.64	-0.21	-0.26	-0.34	0.57	7337	-9.4
20	O056	D	-0.215	0.027	0.64	0.57	0.003	0.05	0.12	0.19	0.64	-0.22	-0.28	-0.34	0.57	7354	-9.9
1	O057	B	0.217	0.025	0.54	0.30	0.004	0.20	0.54	0.12	0.13	-0.19	0.30	-0.05	-0.15	7953	9.9
2	O057	B	0.217	0.026	0.55	0.30	0.003	0.18	0.55	0.13	0.14	-0.19	0.30	-0.06	-0.14	7395	9.9
3	O057	B	0.217	0.026	0.56	0.30	0.002	0.19	0.56	0.13	0.13	-0.18	0.30	-0.08	-0.13	7392	9.9
4	O057	B	0.217	0.026	0.56	0.29	0.004	0.18	0.56	0.12	0.13	-0.17	0.29	-0.07	-0.15	7394	9.9
5	O057	B	0.217	0.026	0.55	0.30	0.003	0.19	0.55	0.13	0.13	-0.19	0.30	-0.07	-0.14	7387	9.9
6	O057	B	0.217	0.026	0.56	0.30	0.002	0.19	0.56	0.12	0.14	-0.19	0.30	-0.06	-0.16	7388	9.9
7	O057	B	0.217	0.026	0.55	0.29	0.003	0.18	0.55	0.13	0.14	-0.15	0.29	-0.08	-0.15	7391	9.9
8	O057	B	0.217	0.026	0.55	0.29	0.002	0.19	0.55	0.12	0.14	-0.17	0.29	-0.09	-0.12	7394	9.9
9	O057	B	0.217	0.026	0.55	0.30	0.003	0.18	0.55	0.13	0.14	-0.18	0.30	-0.07	-0.14	7395	9.9
10	O057	B	0.217	0.026	0.56	0.31	0.003	0.19	0.56	0.12	0.13	-0.17	0.31	-0.09	-0.16	7377	9.9
11	O057	B	0.217	0.026	0.54	0.28	0.003	0.19	0.54	0.13	0.14	-0.17	0.28	-0.06	-0.15	7377	9.9
12	O057	B	0.217	0.026	0.55	0.32	0.004	0.18	0.55	0.13	0.14	-0.16	0.32	-0.09	-0.18	7357	9.9
13	O057	B	0.217	0.026	0.55	0.32	0.004	0.19	0.55	0.13	0.13	-0.19	0.32	-0.09	-0.15	7335	9.9
14	O057	B	0.217	0.026	0.55	0.32	0.003	0.19	0.55	0.13	0.13	-0.18	0.32	-0.09	-0.16	7320	9.9
15	O057	B	0.217	0.026	0.55	0.29	0.003	0.18	0.55	0.13	0.14	-0.18	0.29	-0.05	-0.16	7307	9.9
16	O057	B	0.217	0.026	0.55	0.29	0.003	0.19	0.55	0.13	0.14	-0.18	0.29	-0.07	-0.14	7316	9.9
17	O057	B	0.217	0.026	0.55	0.33	0.003	0.19	0.55	0.12	0.14	-0.18	0.33	-0.08	-0.18	7330	9.3
18	O057	B	0.217	0.026	0.54	0.30	0.003	0.18	0.54	0.13	0.14	-0.18	0.30	-0.06	-0.15	7306	9.9
19	O057	B	0.217	0.026	0.55	0.29	0.003	0.18	0.55	0.13	0.14	-0.16	0.29	-0.07	-0.15	7337	9.9
20	O057	B	0.217	0.026	0.55	0.31	0.004	0.20	0.55	0.12	0.13	-0.20	0.31	-0.07	-0.13	7354	9.9
1	O058	C	0.756	0.025	0.50	0.30	0.005	0.21	0.15	0.50	0.12	-0.16	-0.19	0.30	-0.03	7953	9.9
2	O058	C	0.756	0.026	0.52	0.30	0.004	0.21	0.15	0.52	0.12	-0.17	-0.20	0.30	-0.01	7395	9.9
3	O058	C	0.756	0.026	0.53	0.32	0.004	0.21	0.14	0.53	0.12	-0.17	-0.22	0.32	-0.04	7392	9.9
4	O058	C	0.756	0.026	0.52	0.29	0.005	0.21	0.14	0.52	0.12	-0.17	-0.18	0.29	-0.02	7394	9.9
5	O058	C	0.756	0.026	0.53	0.32	0.004	0.21	0.14	0.53	0.12	-0.17	-0.23	0.32	-0.02	7387	9.9
6	O058	C	0.756	0.026	0.52	0.27	0.004	0.21	0.14	0.52	0.12	-0.15	-0.19	0.27	-0.01	7388	9.9
7	O058	C	0.756	0.026	0.52	0.32	0.003	0.21	0.14	0.52	0.12	-0.15	-0.23	0.32	-0.03	7391	9.9
8	O058	C	0.756	0.026	0.52	0.32	0.003	0.21	0.15	0.52	0.12	-0.20	-0.19	0.32	-0.03	7394	9.9
9	O058	C	0.756	0.026	0.53	0.32	0.004	0.21	0.14	0.53	0.12	-0.15	-0.20	0.32	-0.06	7395	9.9
10	O058	C	0.756	0.026	0.52	0.32	0.004	0.21	0.14	0.52	0.12	-0.18	-0.20	0.32	-0.04	7377	9.9
11	O058	C	0.756	0.026	0.53	0.30	0.003	0.21	0.14	0.53	0.12	-0.17	-0.20	0.30	-0.02	7377	9.9
12	O058	C	0.756	0.026	0.52	0.31	0.004	0.21	0.14	0.52	0.12	-0.17	-0.22	0.31	-0.02	7357	9.9
13	O058	C	0.756	0.026	0.52	0.31	0.003	0.21	0.14	0.52	0.13	-0.19	-0.20	0.31	-0.02	7335	9.9
14	O058	C	0.756	0.026	0.53	0.31	0.004	0.21	0.14	0.53	0.12	-0.19	-0.20	0.31	-0.01	7320	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O058	C	0.756	0.026	0.53	0.30	0.004	0.21	0.14	0.53	0.12	-0.17	-0.21	0.30	-0.00	7307	9.9
16	O058	C	0.756	0.026	0.52	0.31	0.003	0.22	0.14	0.52	0.12	-0.16	-0.19	0.31	-0.05	7316	9.9
17	O058	C	0.756	0.026	0.52	0.29	0.004	0.21	0.14	0.52	0.12	-0.15	-0.21	0.29	-0.02	7330	9.9
18	O058	C	0.756	0.026	0.52	0.31	0.003	0.21	0.15	0.52	0.12	-0.18	-0.20	0.31	-0.02	7306	9.9
19	O058	C	0.756	0.026	0.52	0.30	0.006	0.21	0.14	0.52	0.13	-0.17	-0.19	0.30	-0.02	7337	9.9
20	O058	C	0.756	0.026	0.53	0.31	0.004	0.20	0.15	0.53	0.12	-0.16	-0.22	0.31	-0.02	7354	9.9
1	O059	B	0.903	0.029	0.78	0.50	0.003	0.08	0.78	0.05	0.08	-0.19	0.50	-0.29	-0.30	7953	-4.9
2	O059	B	0.903	0.032	0.80	0.47	0.003	0.08	0.80	0.04	0.07	-0.18	0.47	-0.28	-0.29	7395	-1.4
3	O059	B	0.903	0.033	0.80	0.48	0.002	0.09	0.80	0.04	0.07	-0.19	0.48	-0.28	-0.30	7392	0.9
4	O059	B	0.903	0.032	0.80	0.48	0.002	0.08	0.80	0.04	0.08	-0.18	0.48	-0.27	-0.31	7394	-3.0
5	O059	B	0.903	0.032	0.80	0.49	0.002	0.08	0.80	0.05	0.08	-0.17	0.49	-0.30	-0.31	7387	-1.0
6	O059	B	0.903	0.032	0.81	0.46	0.002	0.08	0.81	0.04	0.07	-0.17	0.46	-0.29	-0.30	7388	-2.0
7	O059	B	0.903	0.032	0.81	0.47	0.002	0.08	0.81	0.04	0.07	-0.18	0.47	-0.27	-0.30	7391	-2.1
8	O059	B	0.903	0.032	0.80	0.48	0.001	0.08	0.80	0.04	0.08	-0.16	0.48	-0.29	-0.33	7394	-2.4
9	O059	B	0.903	0.032	0.81	0.49	0.002	0.08	0.81	0.04	0.07	-0.19	0.49	-0.28	-0.32	7395	-3.2
10	O059	B	0.903	0.032	0.80	0.48	0.002	0.08	0.80	0.04	0.08	-0.16	0.48	-0.29	-0.32	7377	-1.8
11	O059	B	0.903	0.031	0.81	0.46	0.002	0.08	0.81	0.04	0.07	-0.17	0.46	-0.28	-0.30	7377	-5.9
12	O059	B	0.903	0.032	0.81	0.48	0.003	0.08	0.81	0.04	0.07	-0.18	0.48	-0.29	-0.31	7357	-1.1
13	O059	B	0.903	0.033	0.81	0.48	0.002	0.08	0.81	0.04	0.07	-0.19	0.48	-0.29	-0.31	7335	-3.5
14	O059	B	0.903	0.032	0.80	0.48	0.002	0.08	0.80	0.04	0.08	-0.16	0.48	-0.28	-0.33	7320	-2.1
15	O059	B	0.903	0.032	0.80	0.48	0.002	0.08	0.80	0.04	0.07	-0.18	0.48	-0.28	-0.31	7307	-1.5
16	O059	B	0.903	0.032	0.80	0.49	0.002	0.08	0.80	0.05	0.08	-0.19	0.49	-0.29	-0.30	7316	-2.2
17	O059	B	0.903	0.031	0.80	0.48	0.002	0.08	0.80	0.04	0.08	-0.18	0.48	-0.26	-0.32	7330	-2.3
18	O059	B	0.903	0.032	0.80	0.47	0.002	0.08	0.80	0.04	0.08	-0.16	0.47	-0.29	-0.30	7306	-1.1
19	O059	B	0.903	0.032	0.80	0.48	0.003	0.08	0.80	0.04	0.07	-0.19	0.48	-0.27	-0.31	7337	-0.4
20	O059	B	0.903	0.032	0.80	0.47	0.002	0.08	0.80	0.04	0.07	-0.17	0.47	-0.28	-0.30	7354	0.2
1	O060	A	-0.835	0.025	0.61	0.37	0.003	0.61	0.16	0.19	0.05	0.37	-0.27	-0.16	-0.06	7953	5.6
2	O060	A	-0.835	0.026	0.61	0.39	0.003	0.61	0.15	0.19	0.05	0.39	-0.26	-0.18	-0.09	7395	3.6
3	O060	A	-0.835	0.027	0.62	0.37	0.002	0.62	0.15	0.18	0.05	0.37	-0.26	-0.17	-0.09	7392	5.4
4	O060	A	-0.835	0.026	0.61	0.37	0.002	0.61	0.15	0.19	0.05	0.37	-0.26	-0.16	-0.08	7394	5.2
5	O060	A	-0.835	0.027	0.61	0.39	0.002	0.61	0.15	0.19	0.05	0.39	-0.26	-0.18	-0.11	7387	3.2
6	O060	A	-0.835	0.026	0.62	0.39	0.002	0.62	0.15	0.18	0.05	0.39	-0.27	-0.18	-0.08	7388	1.8
7	O060	A	-0.835	0.026	0.61	0.38	0.002	0.61	0.15	0.19	0.05	0.38	-0.26	-0.18	-0.07	7391	3.4
8	O060	A	-0.835	0.026	0.61	0.38	0.001	0.61	0.15	0.19	0.05	0.38	-0.28	-0.16	-0.08	7394	3.1
9	O060	A	-0.835	0.027	0.61	0.37	0.002	0.61	0.15	0.19	0.05	0.37	-0.26	-0.17	-0.07	7395	4.9
10	O060	A	-0.835	0.027	0.62	0.38	0.002	0.62	0.15	0.18	0.04	0.38	-0.27	-0.18	-0.08	7377	3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O060	A	-0.835	0.026	0.61	0.36	0.001	0.61	0.15	0.19	0.05	0.36	-0.28	-0.15	-0.07	7377	3.5
12	O060	A	-0.835	0.027	0.62	0.38	0.003	0.62	0.14	0.19	0.05	0.38	-0.26	-0.16	-0.10	7357	5.0
13	O060	A	-0.835	0.027	0.62	0.39	0.001	0.62	0.15	0.19	0.05	0.39	-0.28	-0.17	-0.10	7335	4.6
14	O060	A	-0.835	0.026	0.61	0.38	0.002	0.61	0.16	0.18	0.05	0.38	-0.26	-0.17	-0.09	7320	4.2
15	O060	A	-0.835	0.027	0.62	0.39	0.002	0.62	0.15	0.18	0.05	0.39	-0.29	-0.16	-0.07	7307	2.8
16	O060	A	-0.835	0.026	0.61	0.37	0.002	0.61	0.15	0.18	0.05	0.37	-0.26	-0.18	-0.07	7316	4.2
17	O060	A	-0.835	0.026	0.61	0.39	0.002	0.61	0.15	0.19	0.05	0.39	-0.27	-0.17	-0.08	7330	2.4
18	O060	A	-0.835	0.027	0.61	0.37	0.002	0.61	0.15	0.19	0.05	0.37	-0.27	-0.16	-0.07	7306	5.5
19	O060	A	-0.835	0.027	0.62	0.38	0.003	0.62	0.15	0.18	0.05	0.38	-0.26	-0.17	-0.10	7337	5.0
20	O060	A	-0.835	0.027	0.62	0.37	0.002	0.62	0.15	0.18	0.05	0.37	-0.25	-0.16	-0.10	7354	5.5
1	O061	C	0.434	0.025	0.53	0.40	0.003	0.14	0.15	0.53	0.18	-0.18	-0.24	0.40	-0.11	7953	6.6
2	O061	C	0.434	0.026	0.54	0.39	0.003	0.13	0.15	0.54	0.17	-0.17	-0.26	0.39	-0.09	7395	6.3
3	O061	C	0.434	0.026	0.54	0.39	0.003	0.14	0.15	0.54	0.17	-0.18	-0.24	0.39	-0.12	7392	7.3
4	O061	C	0.434	0.026	0.54	0.38	0.003	0.13	0.15	0.54	0.18	-0.16	-0.26	0.38	-0.10	7394	7.2
5	O061	C	0.434	0.026	0.54	0.38	0.002	0.13	0.15	0.54	0.18	-0.16	-0.26	0.38	-0.10	7387	8.4
6	O061	C	0.434	0.026	0.55	0.39	0.002	0.13	0.15	0.55	0.17	-0.17	-0.26	0.39	-0.11	7388	5.6
7	O061	C	0.434	0.026	0.55	0.39	0.003	0.13	0.15	0.55	0.17	-0.18	-0.25	0.39	-0.10	7391	5.1
8	O061	C	0.434	0.026	0.54	0.38	0.002	0.12	0.15	0.54	0.18	-0.17	-0.27	0.38	-0.10	7394	5.3
9	O061	C	0.434	0.026	0.56	0.39	0.003	0.12	0.14	0.56	0.17	-0.16	-0.27	0.39	-0.11	7395	6.5
10	O061	C	0.434	0.026	0.56	0.39	0.002	0.13	0.15	0.56	0.17	-0.17	-0.26	0.39	-0.11	7377	6.0
11	O061	C	0.434	0.026	0.53	0.37	0.002	0.13	0.15	0.53	0.19	-0.17	-0.25	0.37	-0.09	7377	6.5
12	O061	C	0.434	0.026	0.54	0.38	0.003	0.13	0.14	0.54	0.19	-0.18	-0.26	0.38	-0.10	7357	9.1
13	O061	C	0.434	0.026	0.54	0.38	0.002	0.13	0.15	0.54	0.18	-0.18	-0.25	0.38	-0.10	7335	8.6
14	O061	C	0.434	0.026	0.54	0.39	0.003	0.13	0.15	0.54	0.19	-0.18	-0.26	0.39	-0.09	7320	7.1
15	O061	C	0.434	0.026	0.54	0.38	0.002	0.13	0.16	0.54	0.18	-0.16	-0.25	0.38	-0.10	7307	8.8
16	O061	C	0.434	0.026	0.55	0.38	0.002	0.13	0.15	0.55	0.17	-0.17	-0.25	0.38	-0.10	7316	6.6
17	O061	C	0.434	0.026	0.55	0.40	0.003	0.13	0.14	0.55	0.18	-0.18	-0.26	0.40	-0.10	7330	5.7
18	O061	C	0.434	0.026	0.54	0.37	0.002	0.13	0.15	0.54	0.18	-0.16	-0.27	0.37	-0.08	7306	8.8
19	O061	C	0.434	0.026	0.55	0.38	0.003	0.13	0.14	0.55	0.18	-0.18	-0.26	0.38	-0.08	7337	9.0
20	O061	C	0.434	0.026	0.55	0.38	0.003	0.13	0.14	0.55	0.17	-0.17	-0.26	0.38	-0.09	7354	9.2
1	O093	B	-1.280	0.033	0.84	0.47	0.003	0.08	0.84	0.03	0.05	-0.25	0.47	-0.21	-0.29	7953	-4.0
2	O093	B	-1.280	0.036	0.86	0.43	0.004	0.07	0.86	0.03	0.04	-0.22	0.43	-0.21	-0.27	7395	-1.1
3	O093	B	-1.280	0.037	0.86	0.44	0.003	0.08	0.86	0.03	0.04	-0.24	0.44	-0.20	-0.28	7392	-0.6
4	O093	B	-1.280	0.035	0.86	0.43	0.004	0.07	0.86	0.03	0.04	-0.21	0.43	-0.22	-0.27	7394	-2.2
5	O093	B	-1.280	0.036	0.85	0.43	0.003	0.08	0.85	0.03	0.04	-0.22	0.43	-0.21	-0.27	7387	-0.2
6	O093	B	-1.280	0.036	0.86	0.41	0.003	0.07	0.86	0.03	0.03	-0.21	0.41	-0.22	-0.26	7388	-1.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O093	B	-1.280	0.036	0.86	0.46	0.003	0.07	0.86	0.03	0.04	-0.24	0.46	-0.24	-0.27	7391	-2.5
8	O093	B	-1.280	0.036	0.85	0.44	0.002	0.07	0.85	0.03	0.04	-0.23	0.44	-0.20	-0.29	7394	-0.9
9	O093	B	-1.280	0.036	0.86	0.43	0.003	0.07	0.86	0.03	0.04	-0.21	0.43	-0.22	-0.28	7395	-1.0
10	O093	B	-1.280	0.036	0.87	0.44	0.003	0.07	0.87	0.03	0.04	-0.24	0.44	-0.20	-0.28	7377	-3.7
11	O093	B	-1.280	0.035	0.86	0.43	0.002	0.07	0.86	0.03	0.04	-0.20	0.43	-0.22	-0.28	7377	-4.3
12	O093	B	-1.280	0.036	0.86	0.42	0.003	0.07	0.86	0.03	0.04	-0.20	0.42	-0.21	-0.27	7357	0.3
13	O093	B	-1.280	0.037	0.86	0.46	0.002	0.08	0.86	0.03	0.04	-0.25	0.46	-0.22	-0.28	7335	-0.7
14	O093	B	-1.280	0.036	0.85	0.43	0.003	0.08	0.85	0.03	0.04	-0.22	0.43	-0.20	-0.29	7320	0.2
15	O093	B	-1.280	0.036	0.85	0.44	0.003	0.07	0.85	0.03	0.04	-0.22	0.44	-0.22	-0.28	7307	0.2
16	O093	B	-1.280	0.036	0.86	0.45	0.003	0.07	0.86	0.03	0.04	-0.23	0.45	-0.21	-0.28	7316	-2.4
17	O093	B	-1.280	0.035	0.86	0.43	0.003	0.07	0.86	0.03	0.04	-0.22	0.43	-0.22	-0.27	7330	-1.2
18	O093	B	-1.280	0.036	0.87	0.42	0.002	0.07	0.87	0.03	0.04	-0.20	0.42	-0.22	-0.27	7306	-0.6
19	O093	B	-1.280	0.036	0.85	0.43	0.004	0.07	0.85	0.03	0.04	-0.21	0.43	-0.22	-0.27	7337	2.7
20	O093	B	-1.280	0.036	0.86	0.45	0.003	0.07	0.86	0.03	0.04	-0.22	0.45	-0.21	-0.29	7354	-1.3
1	O094	A	-1.280	0.028	0.75	0.41	0.002	0.75	0.01	0.06	0.18	0.41	-0.15	-0.24	-0.26	7953	0.6
2	O094	A	-1.280	0.030	0.80	0.40	0.002	0.80	0.01	0.05	0.14	0.40	-0.16	-0.23	-0.26	7395	-3.6
3	O094	A	-1.280	0.031	0.76	0.42	0.002	0.76	0.01	0.06	0.17	0.42	-0.15	-0.22	-0.28	7392	3.6
4	O094	A	-1.280	0.030	0.79	0.40	0.001	0.79	0.01	0.05	0.15	0.40	-0.13	-0.24	-0.27	7394	-2.7
5	O094	A	-1.280	0.030	0.78	0.42	0.001	0.78	0.01	0.05	0.15	0.42	-0.14	-0.26	-0.27	7387	-1.9
6	O094	A	-1.280	0.031	0.79	0.40	0.001	0.79	0.01	0.05	0.15	0.40	-0.16	-0.23	-0.25	7388	-1.4
7	O094	A	-1.280	0.031	0.79	0.41	0.002	0.79	0.01	0.05	0.15	0.41	-0.13	-0.24	-0.27	7391	-2.3
8	O094	A	-1.280	0.030	0.78	0.39	0.001	0.78	0.01	0.06	0.15	0.39	-0.15	-0.23	-0.25	7394	-0.2
9	O094	A	-1.280	0.031	0.79	0.38	0.001	0.79	0.01	0.05	0.15	0.38	-0.15	-0.24	-0.24	7395	0.7
10	O094	A	-1.280	0.031	0.78	0.39	0.001	0.78	0.01	0.06	0.15	0.39	-0.15	-0.23	-0.26	7377	2.0
11	O094	A	-1.280	0.030	0.79	0.39	0.001	0.79	0.01	0.06	0.15	0.39	-0.13	-0.24	-0.25	7377	-3.4
12	O094	A	-1.280	0.031	0.80	0.42	0.002	0.80	0.01	0.06	0.13	0.42	-0.17	-0.25	-0.26	7357	-2.7
13	O094	A	-1.280	0.031	0.80	0.40	0.001	0.80	0.01	0.05	0.14	0.40	-0.12	-0.21	-0.28	7335	-1.2
14	O094	A	-1.280	0.030	0.78	0.39	0.002	0.78	0.01	0.06	0.16	0.39	-0.14	-0.23	-0.26	7320	-0.3
15	O094	A	-1.280	0.031	0.79	0.38	0.002	0.79	0.01	0.05	0.15	0.38	-0.14	-0.24	-0.25	7307	-0.3
16	O094	A	-1.280	0.031	0.78	0.41	0.002	0.78	0.01	0.05	0.15	0.41	-0.16	-0.24	-0.26	7316	-2.5
17	O094	A	-1.280	0.030	0.79	0.37	0.001	0.79	0.01	0.05	0.15	0.37	-0.12	-0.23	-0.24	7330	-0.5
18	O094	A	-1.280	0.031	0.78	0.38	0.001	0.78	0.01	0.05	0.16	0.38	-0.12	-0.23	-0.25	7306	2.6
19	O094	A	-1.280	0.031	0.78	0.39	0.002	0.78	0.01	0.06	0.15	0.39	-0.14	-0.22	-0.26	7337	-0.8
20	O094	A	-1.280	0.031	0.79	0.38	0.002	0.79	0.01	0.05	0.15	0.38	-0.13	-0.23	-0.24	7354	0.4
1	O095	D	-0.632	0.032	0.82	0.49	0.002	0.03	0.05	0.09	0.82	-0.24	-0.28	-0.27	0.49	7953	-7.2
2	O095	D	-0.632	0.034	0.84	0.45	0.003	0.03	0.04	0.09	0.84	-0.20	-0.24	-0.27	0.45	7395	-3.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O095	D	-0.632	0.035	0.84	0.49	0.002	0.03	0.04	0.10	0.84	-0.22	-0.25	-0.31	0.49	7392	-2.5
4	O095	D	-0.632	0.034	0.85	0.46	0.002	0.03	0.04	0.08	0.85	-0.23	-0.24	-0.28	0.46	7394	-5.5
5	O095	D	-0.632	0.034	0.84	0.46	0.002	0.03	0.04	0.08	0.84	-0.22	-0.25	-0.27	0.46	7387	-3.9
6	O095	D	-0.632	0.035	0.85	0.46	0.001	0.03	0.04	0.09	0.85	-0.23	-0.23	-0.29	0.46	7388	-3.9
7	O095	D	-0.632	0.035	0.85	0.46	0.002	0.03	0.04	0.09	0.85	-0.22	-0.25	-0.27	0.46	7391	-3.8
8	O095	D	-0.632	0.034	0.85	0.46	0.002	0.03	0.04	0.08	0.85	-0.22	-0.26	-0.26	0.46	7394	-5.3
9	O095	D	-0.632	0.035	0.85	0.46	0.002	0.03	0.04	0.09	0.85	-0.21	-0.26	-0.27	0.46	7395	-5.0
10	O095	D	-0.632	0.035	0.84	0.48	0.002	0.03	0.04	0.09	0.84	-0.23	-0.26	-0.29	0.48	7377	-4.0
11	O095	D	-0.632	0.034	0.85	0.44	0.002	0.03	0.04	0.09	0.85	-0.24	-0.22	-0.27	0.44	7377	-6.4
12	O095	D	-0.632	0.034	0.85	0.46	0.002	0.03	0.04	0.09	0.85	-0.25	-0.23	-0.27	0.46	7357	-3.3
13	O095	D	-0.632	0.036	0.85	0.46	0.002	0.03	0.04	0.09	0.85	-0.23	-0.25	-0.27	0.46	7335	-2.4
14	O095	D	-0.632	0.034	0.85	0.48	0.002	0.03	0.04	0.09	0.85	-0.23	-0.25	-0.30	0.48	7320	-6.7
15	O095	D	-0.632	0.035	0.85	0.49	0.002	0.03	0.04	0.09	0.85	-0.24	-0.25	-0.30	0.49	7307	-5.9
16	O095	D	-0.632	0.035	0.84	0.49	0.003	0.03	0.04	0.09	0.84	-0.26	-0.25	-0.29	0.49	7316	-5.6
17	O095	D	-0.632	0.034	0.85	0.45	0.002	0.03	0.04	0.09	0.85	-0.23	-0.24	-0.26	0.45	7330	-4.8
18	O095	D	-0.632	0.035	0.85	0.46	0.002	0.03	0.04	0.09	0.85	-0.23	-0.25	-0.28	0.46	7306	-3.3
19	O095	D	-0.632	0.035	0.85	0.47	0.002	0.03	0.04	0.09	0.85	-0.23	-0.24	-0.29	0.47	7337	-3.7
20	O095	D	-0.632	0.035	0.84	0.48	0.002	0.03	0.04	0.09	0.84	-0.24	-0.25	-0.29	0.48	7354	-3.6
1	O096	C	-1.143	0.026	0.67	0.63	0.003	0.21	0.08	0.67	0.04	-0.53	-0.16	0.63	-0.14	7953	-9.9
2	O096	C	-1.143	0.028	0.71	0.60	0.003	0.18	0.08	0.71	0.04	-0.50	-0.20	0.60	-0.13	7395	-9.9
3	O096	C	-1.143	0.029	0.70	0.61	0.002	0.19	0.08	0.70	0.04	-0.52	-0.18	0.61	-0.13	7392	-8.8
4	O096	C	-1.143	0.028	0.72	0.61	0.003	0.17	0.07	0.72	0.04	-0.50	-0.21	0.61	-0.14	7394	-9.9
5	O096	C	-1.143	0.028	0.69	0.61	0.002	0.19	0.08	0.69	0.04	-0.50	-0.19	0.61	-0.15	7387	-9.9
6	O096	C	-1.143	0.028	0.71	0.61	0.002	0.18	0.07	0.71	0.04	-0.50	-0.20	0.61	-0.16	7388	-9.9
7	O096	C	-1.143	0.028	0.71	0.61	0.002	0.18	0.07	0.71	0.04	-0.51	-0.17	0.61	-0.15	7391	-9.9
8	O096	C	-1.143	0.028	0.70	0.59	0.002	0.18	0.08	0.70	0.04	-0.51	-0.18	0.59	-0.12	7394	-9.9
9	O096	C	-1.143	0.028	0.71	0.61	0.002	0.17	0.07	0.71	0.04	-0.50	-0.21	0.61	-0.14	7395	-9.9
10	O096	C	-1.143	0.028	0.70	0.61	0.003	0.18	0.08	0.70	0.04	-0.50	-0.21	0.61	-0.13	7377	-9.9
11	O096	C	-1.143	0.028	0.70	0.59	0.002	0.18	0.08	0.70	0.04	-0.50	-0.18	0.59	-0.13	7377	-9.9
12	O096	C	-1.143	0.028	0.70	0.61	0.002	0.18	0.08	0.70	0.04	-0.50	-0.21	0.61	-0.13	7357	-9.9
13	O096	C	-1.143	0.029	0.70	0.60	0.002	0.18	0.07	0.70	0.05	-0.50	-0.19	0.60	-0.13	7335	-8.9
14	O096	C	-1.143	0.028	0.73	0.60	0.002	0.16	0.07	0.73	0.04	-0.51	-0.20	0.60	-0.13	7320	-9.9
15	O096	C	-1.143	0.028	0.70	0.60	0.002	0.18	0.07	0.70	0.04	-0.52	-0.17	0.60	-0.12	7307	-9.9
16	O096	C	-1.143	0.028	0.71	0.62	0.002	0.18	0.06	0.71	0.04	-0.51	-0.19	0.62	-0.14	7316	-9.9
17	O096	C	-1.143	0.028	0.71	0.61	0.002	0.18	0.07	0.71	0.04	-0.51	-0.19	0.61	-0.13	7330	-9.9
18	O096	C	-1.143	0.029	0.70	0.60	0.002	0.18	0.08	0.70	0.04	-0.50	-0.21	0.60	-0.13	7306	-9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O096	C	-1.143	0.029	0.72	0.61	0.002	0.17	0.07	0.72	0.05	-0.51	-0.19	0.61	-0.14	7337	-9.9
20	O096	C	-1.143	0.029	0.71	0.60	0.002	0.18	0.07	0.71	0.04	-0.50	-0.20	0.60	-0.12	7354	-9.9
1	O097	C	-0.164	0.026	0.66	0.50	0.003	0.15	0.15	0.66	0.05	-0.29	-0.22	0.50	-0.23	7953	-5.1
2	O097	C	-0.164	0.028	0.69	0.50	0.003	0.13	0.14	0.69	0.04	-0.29	-0.24	0.50	-0.22	7395	-4.0
3	O097	C	-0.164	0.028	0.70	0.52	0.002	0.13	0.12	0.70	0.04	-0.33	-0.22	0.52	-0.23	7392	-3.0
4	O097	C	-0.164	0.028	0.70	0.49	0.002	0.13	0.13	0.70	0.04	-0.31	-0.21	0.49	-0.22	7394	-5.5
5	O097	C	-0.164	0.028	0.71	0.49	0.002	0.12	0.13	0.71	0.04	-0.29	-0.22	0.49	-0.24	7387	-4.9
6	O097	C	-0.164	0.028	0.69	0.49	0.002	0.13	0.14	0.69	0.05	-0.29	-0.24	0.49	-0.23	7388	-5.3
7	O097	C	-0.164	0.028	0.71	0.50	0.002	0.12	0.13	0.71	0.04	-0.30	-0.24	0.50	-0.24	7391	-5.6
8	O097	C	-0.164	0.028	0.69	0.50	0.001	0.14	0.13	0.69	0.04	-0.33	-0.22	0.50	-0.21	7394	-4.9
9	O097	C	-0.164	0.028	0.70	0.51	0.002	0.13	0.12	0.70	0.04	-0.33	-0.21	0.51	-0.23	7395	-6.7
10	O097	C	-0.164	0.028	0.69	0.50	0.002	0.14	0.13	0.69	0.05	-0.30	-0.21	0.50	-0.25	7377	-3.3
11	O097	C	-0.164	0.027	0.68	0.48	0.003	0.14	0.13	0.68	0.04	-0.30	-0.21	0.48	-0.22	7377	-6.0
12	O097	C	-0.164	0.028	0.70	0.48	0.003	0.13	0.13	0.70	0.04	-0.27	-0.23	0.48	-0.24	7357	-1.6
13	O097	C	-0.164	0.028	0.71	0.51	0.003	0.12	0.13	0.71	0.04	-0.32	-0.24	0.51	-0.23	7335	-4.9
14	O097	C	-0.164	0.028	0.71	0.50	0.002	0.13	0.12	0.71	0.04	-0.32	-0.21	0.50	-0.23	7320	-5.7
15	O097	C	-0.164	0.028	0.70	0.51	0.002	0.13	0.13	0.70	0.04	-0.29	-0.24	0.51	-0.25	7307	-5.1
16	O097	C	-0.164	0.028	0.69	0.50	0.002	0.13	0.14	0.69	0.04	-0.30	-0.22	0.50	-0.23	7316	-4.2
17	O097	C	-0.164	0.028	0.70	0.49	0.003	0.13	0.13	0.70	0.04	-0.30	-0.22	0.49	-0.23	7330	-4.8
18	O097	C	-0.164	0.028	0.70	0.51	0.003	0.13	0.13	0.70	0.04	-0.31	-0.24	0.51	-0.23	7306	-4.8
19	O097	C	-0.164	0.028	0.70	0.52	0.003	0.13	0.13	0.70	0.04	-0.32	-0.24	0.52	-0.23	7337	-4.3
20	O097	C	-0.164	0.028	0.70	0.49	0.002	0.13	0.12	0.70	0.04	-0.32	-0.20	0.49	-0.24	7354	-1.6
1	O098	D	-0.083	0.026	0.63	0.53	0.003	0.06	0.20	0.11	0.63	-0.20	-0.24	-0.34	0.53	7953	-8.3
2	O098	D	-0.083	0.027	0.66	0.52	0.003	0.05	0.18	0.10	0.66	-0.18	-0.25	-0.33	0.52	7395	-7.6
3	O098	D	-0.083	0.028	0.65	0.52	0.002	0.06	0.20	0.10	0.65	-0.20	-0.25	-0.33	0.52	7392	-3.9
4	O098	D	-0.083	0.027	0.65	0.51	0.002	0.06	0.20	0.09	0.65	-0.17	-0.27	-0.32	0.51	7394	-5.4
5	O098	D	-0.083	0.027	0.65	0.51	0.002	0.06	0.19	0.10	0.65	-0.20	-0.23	-0.33	0.51	7387	-4.5
6	O098	D	-0.083	0.027	0.66	0.51	0.001	0.06	0.19	0.10	0.66	-0.19	-0.26	-0.32	0.51	7388	-5.0
7	O098	D	-0.083	0.027	0.65	0.52	0.003	0.05	0.19	0.10	0.65	-0.18	-0.24	-0.35	0.52	7391	-6.0
8	O098	D	-0.083	0.027	0.65	0.52	0.002	0.06	0.19	0.10	0.65	-0.18	-0.26	-0.33	0.52	7394	-6.0
9	O098	D	-0.083	0.027	0.66	0.50	0.002	0.06	0.20	0.09	0.66	-0.18	-0.25	-0.33	0.50	7395	-4.0
10	O098	D	-0.083	0.027	0.65	0.50	0.002	0.05	0.19	0.10	0.65	-0.19	-0.24	-0.32	0.50	7377	-3.3
11	O098	D	-0.083	0.027	0.65	0.51	0.002	0.06	0.19	0.10	0.65	-0.19	-0.25	-0.33	0.51	7377	-8.1
12	O098	D	-0.083	0.027	0.66	0.50	0.003	0.06	0.19	0.09	0.66	-0.19	-0.25	-0.32	0.50	7357	-4.6
13	O098	D	-0.083	0.028	0.66	0.51	0.002	0.06	0.20	0.09	0.66	-0.22	-0.26	-0.31	0.51	7335	-4.0
14	O098	D	-0.083	0.027	0.66	0.52	0.003	0.06	0.19	0.09	0.66	-0.20	-0.25	-0.33	0.52	7320	-7.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O098	D	-0.083	0.027	0.66	0.51	0.002	0.05	0.20	0.09	0.66	-0.18	-0.26	-0.33	0.51	7307	-4.4
16	O098	D	-0.083	0.027	0.65	0.49	0.002	0.06	0.19	0.10	0.65	-0.19	-0.22	-0.33	0.49	7316	-3.3
17	O098	D	-0.083	0.027	0.65	0.50	0.002	0.06	0.21	0.09	0.65	-0.18	-0.26	-0.30	0.50	7330	-5.1
18	O098	D	-0.083	0.027	0.68	0.51	0.002	0.05	0.19	0.09	0.68	-0.20	-0.27	-0.31	0.51	7306	-6.4
19	O098	D	-0.083	0.027	0.66	0.52	0.003	0.05	0.19	0.09	0.66	-0.20	-0.25	-0.34	0.52	7337	-4.6
20	O098	D	-0.083	0.027	0.66	0.52	0.003	0.05	0.20	0.09	0.66	-0.21	-0.25	-0.34	0.52	7354	-4.5
1	O099	C	0.147	0.025	0.47	0.41	0.003	0.21	0.18	0.47	0.14	-0.08	-0.30	0.41	-0.15	7953	9.2
2	O099	C	0.147	0.026	0.44	0.40	0.003	0.18	0.18	0.44	0.19	-0.10	-0.28	0.40	-0.11	7395	5.2
3	O099	C	0.147	0.026	0.44	0.38	0.003	0.18	0.19	0.44	0.19	-0.13	-0.27	0.38	-0.08	7392	7.6
4	O099	C	0.147	0.026	0.49	0.46	0.003	0.18	0.17	0.49	0.16	-0.11	-0.31	0.46	-0.17	7394	2.9
5	O099	C	0.147	0.026	0.47	0.42	0.002	0.20	0.18	0.47	0.14	-0.07	-0.31	0.42	-0.16	7387	6.1
6	O099	C	0.147	0.026	0.46	0.40	0.003	0.17	0.18	0.46	0.18	-0.09	-0.31	0.40	-0.11	7388	6.2
7	O099	C	0.147	0.026	0.47	0.44	0.003	0.21	0.17	0.47	0.15	-0.09	-0.31	0.44	-0.16	7391	2.8
8	O099	C	0.147	0.026	0.50	0.42	0.003	0.21	0.17	0.50	0.13	-0.09	-0.33	0.42	-0.15	7394	4.4
9	O099	C	0.147	0.026	0.49	0.43	0.003	0.19	0.17	0.49	0.16	-0.09	-0.31	0.43	-0.16	7395	3.2
10	O099	C	0.147	0.026	0.47	0.39	0.002	0.16	0.18	0.47	0.20	-0.10	-0.29	0.39	-0.11	7377	7.9
11	O099	C	0.147	0.026	0.48	0.42	0.002	0.20	0.18	0.48	0.14	-0.09	-0.32	0.42	-0.14	7377	6.1
12	O099	C	0.147	0.026	0.47	0.40	0.003	0.20	0.18	0.47	0.14	-0.08	-0.28	0.40	-0.16	7357	8.2
13	O099	C	0.147	0.026	0.47	0.40	0.002	0.20	0.18	0.47	0.15	-0.09	-0.30	0.40	-0.14	7335	7.4
14	O099	C	0.147	0.026	0.48	0.42	0.004	0.20	0.18	0.48	0.14	-0.08	-0.30	0.42	-0.17	7320	5.8
15	O099	C	0.147	0.026	0.46	0.41	0.003	0.21	0.19	0.46	0.14	-0.07	-0.31	0.41	-0.15	7307	5.8
16	O099	C	0.147	0.026	0.44	0.37	0.003	0.17	0.19	0.44	0.20	-0.07	-0.29	0.37	-0.09	7316	7.4
17	O099	C	0.147	0.026	0.48	0.42	0.003	0.20	0.18	0.48	0.14	-0.08	-0.30	0.42	-0.16	7330	6.1
18	O099	C	0.147	0.026	0.48	0.41	0.003	0.20	0.19	0.48	0.14	-0.09	-0.30	0.41	-0.14	7306	6.0
19	O099	C	0.147	0.026	0.47	0.41	0.003	0.20	0.18	0.47	0.14	-0.08	-0.29	0.41	-0.16	7337	7.6
20	O099	C	0.147	0.026	0.46	0.41	0.004	0.21	0.18	0.46	0.14	-0.08	-0.29	0.41	-0.16	7354	7.1
1	O100	D	1.157	0.025	0.60	0.58	0.003	0.12	0.16	0.12	0.60	-0.34	-0.37	-0.10	0.58	7953	-9.9
2	O100	D	1.157	0.027	0.62	0.55	0.003	0.10	0.14	0.13	0.62	-0.31	-0.33	-0.14	0.55	7395	-8.5
3	O100	D	1.157	0.027	0.62	0.56	0.002	0.11	0.14	0.13	0.62	-0.34	-0.34	-0.13	0.56	7392	-6.8
4	O100	D	1.157	0.027	0.62	0.57	0.003	0.11	0.15	0.12	0.62	-0.34	-0.34	-0.13	0.57	7394	-9.9
5	O100	D	1.157	0.027	0.63	0.56	0.002	0.11	0.14	0.12	0.63	-0.33	-0.35	-0.14	0.56	7387	-9.9
6	O100	D	1.157	0.027	0.62	0.55	0.002	0.10	0.14	0.13	0.62	-0.34	-0.32	-0.13	0.55	7388	-7.7
7	O100	D	1.157	0.027	0.63	0.55	0.003	0.10	0.14	0.13	0.63	-0.31	-0.35	-0.14	0.55	7391	-9.0
8	O100	D	1.157	0.026	0.62	0.54	0.002	0.11	0.15	0.13	0.62	-0.32	-0.34	-0.12	0.54	7394	-8.0
9	O100	D	1.157	0.027	0.62	0.55	0.003	0.10	0.14	0.13	0.62	-0.34	-0.34	-0.12	0.55	7395	-8.6
10	O100	D	1.157	0.027	0.60	0.56	0.002	0.12	0.15	0.14	0.60	-0.34	-0.35	-0.11	0.56	7377	-5.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O100	D	1.157	0.026	0.62	0.55	0.002	0.11	0.14	0.13	0.62	-0.33	-0.33	-0.14	0.55	7377	-9.9
12	O100	D	1.157	0.027	0.62	0.55	0.002	0.11	0.14	0.14	0.62	-0.34	-0.33	-0.13	0.55	7357	-7.1
13	O100	D	1.157	0.027	0.62	0.53	0.002	0.09	0.14	0.15	0.62	-0.34	-0.33	-0.11	0.53	7335	-3.6
14	O100	D	1.157	0.027	0.61	0.56	0.002	0.10	0.14	0.14	0.61	-0.34	-0.33	-0.13	0.56	7320	-9.0
15	O100	D	1.157	0.027	0.61	0.56	0.002	0.11	0.14	0.14	0.61	-0.36	-0.33	-0.12	0.56	7307	-6.7
16	O100	D	1.157	0.027	0.59	0.56	0.003	0.10	0.16	0.14	0.59	-0.31	-0.36	-0.12	0.56	7316	-8.6
17	O100	D	1.157	0.026	0.63	0.57	0.002	0.11	0.14	0.13	0.63	-0.34	-0.35	-0.13	0.57	7330	-9.9
18	O100	D	1.157	0.027	0.62	0.56	0.002	0.11	0.14	0.13	0.62	-0.34	-0.35	-0.13	0.56	7306	-8.4
19	O100	D	1.157	0.027	0.61	0.57	0.003	0.11	0.15	0.12	0.61	-0.34	-0.34	-0.13	0.57	7337	-7.7
20	O100	D	1.157	0.027	0.61	0.56	0.003	0.10	0.14	0.14	0.61	-0.34	-0.34	-0.12	0.56	7354	-6.2
1	O101	C	0.349	0.025	0.61	0.45	0.003	0.13	0.17	0.61	0.09	-0.17	-0.26	0.45	-0.20	7953	0.7
2	O101	C	0.349	0.027	0.62	0.45	0.004	0.12	0.17	0.62	0.08	-0.19	-0.27	0.45	-0.18	7395	0.6
3	O101	C	0.349	0.027	0.62	0.46	0.002	0.13	0.17	0.62	0.08	-0.20	-0.27	0.46	-0.17	7392	3.1
4	O101	C	0.349	0.026	0.62	0.42	0.002	0.13	0.17	0.62	0.08	-0.17	-0.27	0.42	-0.16	7394	3.4
5	O101	C	0.349	0.027	0.61	0.44	0.002	0.13	0.17	0.61	0.09	-0.19	-0.26	0.44	-0.18	7387	2.8
6	O101	C	0.349	0.026	0.63	0.43	0.001	0.13	0.17	0.63	0.08	-0.18	-0.27	0.43	-0.16	7388	2.4
7	O101	C	0.349	0.027	0.61	0.43	0.002	0.12	0.18	0.61	0.09	-0.17	-0.29	0.43	-0.15	7391	3.6
8	O101	C	0.349	0.026	0.61	0.43	0.001	0.12	0.17	0.61	0.09	-0.19	-0.24	0.43	-0.18	7394	2.5
9	O101	C	0.349	0.027	0.63	0.43	0.002	0.12	0.17	0.63	0.08	-0.16	-0.28	0.43	-0.17	7395	2.2
10	O101	C	0.349	0.027	0.63	0.43	0.002	0.13	0.17	0.63	0.08	-0.17	-0.26	0.43	-0.18	7377	2.4
11	O101	C	0.349	0.026	0.62	0.44	0.002	0.12	0.17	0.62	0.09	-0.19	-0.25	0.44	-0.19	7377	-1.5
12	O101	C	0.349	0.027	0.62	0.44	0.002	0.13	0.18	0.62	0.08	-0.18	-0.28	0.44	-0.16	7357	3.8
13	O101	C	0.349	0.027	0.62	0.43	0.003	0.13	0.16	0.62	0.09	-0.19	-0.27	0.43	-0.15	7335	3.4
14	O101	C	0.349	0.027	0.63	0.43	0.003	0.12	0.16	0.63	0.09	-0.19	-0.27	0.43	-0.16	7320	1.5
15	O101	C	0.349	0.027	0.63	0.44	0.002	0.12	0.17	0.63	0.08	-0.19	-0.27	0.44	-0.17	7307	2.7
16	O101	C	0.349	0.027	0.63	0.45	0.002	0.12	0.16	0.63	0.09	-0.20	-0.27	0.45	-0.18	7316	-1.0
17	O101	C	0.349	0.026	0.62	0.43	0.003	0.13	0.17	0.62	0.08	-0.17	-0.27	0.43	-0.17	7330	3.1
18	O101	C	0.349	0.027	0.62	0.47	0.002	0.13	0.16	0.62	0.09	-0.19	-0.28	0.47	-0.19	7306	-0.4
19	O101	C	0.349	0.027	0.63	0.47	0.002	0.13	0.17	0.63	0.08	-0.19	-0.30	0.47	-0.17	7337	-0.1
20	O101	C	0.349	0.027	0.62	0.45	0.003	0.12	0.16	0.62	0.10	-0.18	-0.28	0.45	-0.17	7354	2.9
1	O102	C	0.355	0.029	0.78	0.49	0.003	0.07	0.10	0.78	0.05	-0.19	-0.40	0.49	-0.14	7953	-5.8
2	O102	C	0.355	0.032	0.82	0.48	0.003	0.05	0.08	0.82	0.05	-0.21	-0.38	0.48	-0.14	7395	-8.0
3	O102	C	0.355	0.032	0.80	0.50	0.001	0.06	0.09	0.80	0.06	-0.20	-0.41	0.50	-0.13	7392	-3.0
4	O102	C	0.355	0.031	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.22	-0.37	0.48	-0.14	7394	-5.3
5	O102	C	0.355	0.032	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.20	-0.39	0.48	-0.15	7387	-4.0
6	O102	C	0.355	0.032	0.80	0.46	0.002	0.06	0.08	0.80	0.06	-0.19	-0.38	0.46	-0.14	7388	-3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O102	C	0.355	0.032	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.20	-0.38	0.48	-0.15	7391	-2.9
8	O102	C	0.355	0.032	0.81	0.47	0.002	0.06	0.08	0.81	0.05	-0.20	-0.38	0.47	-0.14	7394	-4.0
9	O102	C	0.355	0.032	0.81	0.47	0.002	0.05	0.08	0.81	0.06	-0.20	-0.38	0.47	-0.14	7395	-4.4
10	O102	C	0.355	0.032	0.80	0.50	0.002	0.06	0.08	0.80	0.06	-0.23	-0.40	0.50	-0.14	7377	-5.1
11	O102	C	0.355	0.031	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.24	-0.39	0.48	-0.12	7377	-7.2
12	O102	C	0.355	0.032	0.80	0.49	0.002	0.06	0.09	0.80	0.06	-0.22	-0.39	0.49	-0.14	7357	-4.0
13	O102	C	0.355	0.033	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.20	-0.40	0.48	-0.13	7335	-2.9
14	O102	C	0.355	0.032	0.80	0.46	0.002	0.06	0.09	0.80	0.06	-0.16	-0.38	0.46	-0.14	7320	-4.0
15	O102	C	0.355	0.032	0.80	0.48	0.002	0.06	0.08	0.80	0.06	-0.20	-0.40	0.48	-0.13	7307	-3.4
16	O102	C	0.355	0.032	0.80	0.47	0.003	0.06	0.08	0.80	0.06	-0.20	-0.39	0.47	-0.13	7316	-3.7
17	O102	C	0.355	0.031	0.80	0.47	0.002	0.06	0.08	0.80	0.06	-0.20	-0.37	0.47	-0.14	7330	-5.4
18	O102	C	0.355	0.032	0.81	0.47	0.002	0.06	0.08	0.81	0.05	-0.21	-0.38	0.47	-0.14	7306	-4.2
19	O102	C	0.355	0.032	0.80	0.47	0.003	0.06	0.08	0.80	0.06	-0.20	-0.39	0.47	-0.13	7337	-3.5
20	O102	C	0.355	0.032	0.79	0.49	0.002	0.06	0.09	0.79	0.06	-0.19	-0.41	0.49	-0.14	7354	-2.3
1	O103	D	-0.809	0.027	0.71	0.54	0.004	0.08	0.10	0.11	0.71	-0.32	-0.28	-0.22	0.54	7953	-6.7
2	O103	D	-0.809	0.029	0.75	0.50	0.004	0.06	0.08	0.10	0.75	-0.27	-0.29	-0.21	0.50	7395	-5.2
3	O103	D	-0.809	0.030	0.75	0.53	0.003	0.07	0.08	0.10	0.75	-0.31	-0.29	-0.23	0.53	7392	-4.2
4	O103	D	-0.809	0.029	0.75	0.51	0.003	0.06	0.08	0.10	0.75	-0.29	-0.29	-0.22	0.51	7394	-7.0
5	O103	D	-0.809	0.029	0.75	0.52	0.003	0.07	0.09	0.10	0.75	-0.30	-0.30	-0.20	0.52	7387	-4.7
6	O103	D	-0.809	0.029	0.74	0.52	0.002	0.07	0.09	0.10	0.74	-0.30	-0.31	-0.21	0.52	7388	-5.4
7	O103	D	-0.809	0.029	0.73	0.53	0.004	0.07	0.09	0.10	0.73	-0.32	-0.28	-0.20	0.53	7391	-2.5
8	O103	D	-0.809	0.029	0.74	0.52	0.002	0.07	0.09	0.11	0.74	-0.29	-0.30	-0.22	0.52	7394	-4.2
9	O103	D	-0.809	0.029	0.74	0.53	0.003	0.07	0.09	0.10	0.74	-0.31	-0.30	-0.21	0.53	7395	-2.5
10	O103	D	-0.809	0.029	0.73	0.53	0.003	0.08	0.09	0.10	0.73	-0.31	-0.27	-0.23	0.53	7377	-3.2
11	O103	D	-0.809	0.028	0.74	0.51	0.002	0.07	0.09	0.10	0.74	-0.29	-0.28	-0.22	0.51	7377	-4.6
12	O103	D	-0.809	0.029	0.73	0.52	0.003	0.07	0.09	0.11	0.73	-0.30	-0.30	-0.20	0.52	7357	-0.7
13	O103	D	-0.809	0.030	0.74	0.54	0.002	0.07	0.10	0.09	0.74	-0.32	-0.30	-0.21	0.54	7335	-3.6
14	O103	D	-0.809	0.029	0.74	0.51	0.003	0.07	0.09	0.10	0.74	-0.31	-0.28	-0.20	0.51	7320	-2.9
15	O103	D	-0.809	0.029	0.74	0.52	0.003	0.07	0.08	0.11	0.74	-0.29	-0.29	-0.22	0.52	7307	-3.1
16	O103	D	-0.809	0.029	0.74	0.52	0.004	0.07	0.09	0.10	0.74	-0.29	-0.29	-0.22	0.52	7316	-5.1
17	O103	D	-0.809	0.029	0.73	0.52	0.003	0.07	0.09	0.11	0.73	-0.30	-0.28	-0.22	0.52	7330	-3.9
18	O103	D	-0.809	0.030	0.73	0.53	0.003	0.07	0.09	0.11	0.73	-0.32	-0.29	-0.21	0.53	7306	-2.0
19	O103	D	-0.809	0.029	0.74	0.53	0.003	0.07	0.09	0.10	0.74	-0.32	-0.28	-0.22	0.53	7337	-3.5
20	O103	D	-0.809	0.029	0.76	0.52	0.004	0.07	0.08	0.10	0.76	-0.30	-0.30	-0.22	0.52	7354	-4.2
1	O104	B	-0.366	0.025	0.55	0.51	0.003	0.37	0.55	0.04	0.04	-0.40	0.51	-0.19	-0.07	7953	-6.0
2	O104	B	-0.366	0.026	0.57	0.51	0.003	0.34	0.57	0.04	0.04	-0.40	0.51	-0.21	-0.05	7395	-4.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O104	B	-0.366	0.027	0.57	0.52	0.002	0.35	0.57	0.04	0.04	-0.43	0.52	-0.19	-0.04	7392	-3.3
4	O104	B	-0.366	0.026	0.58	0.50	0.003	0.33	0.58	0.04	0.05	-0.42	0.50	-0.20	-0.03	7394	-4.7
5	O104	B	-0.366	0.026	0.58	0.51	0.002	0.35	0.58	0.04	0.04	-0.41	0.51	-0.21	-0.06	7387	-5.8
6	O104	B	-0.366	0.026	0.57	0.52	0.002	0.35	0.57	0.04	0.04	-0.42	0.52	-0.19	-0.08	7388	-6.0
7	O104	B	-0.366	0.026	0.57	0.51	0.003	0.36	0.57	0.04	0.04	-0.41	0.51	-0.20	-0.08	7391	-5.2
8	O104	B	-0.366	0.026	0.58	0.50	0.002	0.33	0.58	0.04	0.04	-0.42	0.50	-0.20	-0.04	7394	-5.2
9	O104	B	-0.366	0.026	0.61	0.53	0.003	0.32	0.61	0.03	0.03	-0.44	0.53	-0.20	-0.09	7395	-9.1
10	O104	B	-0.366	0.026	0.57	0.52	0.002	0.35	0.57	0.04	0.04	-0.42	0.52	-0.20	-0.07	7377	-5.5
11	O104	B	-0.366	0.026	0.56	0.52	0.002	0.35	0.56	0.05	0.04	-0.42	0.52	-0.21	-0.05	7377	-8.3
12	O104	B	-0.366	0.027	0.57	0.50	0.002	0.34	0.57	0.04	0.04	-0.40	0.50	-0.21	-0.07	7357	-1.9
13	O104	B	-0.366	0.027	0.59	0.52	0.002	0.33	0.59	0.04	0.04	-0.42	0.52	-0.21	-0.08	7335	-4.6
14	O104	B	-0.366	0.026	0.57	0.52	0.002	0.35	0.57	0.04	0.04	-0.42	0.52	-0.19	-0.08	7320	-6.8
15	O104	B	-0.366	0.026	0.61	0.53	0.003	0.32	0.61	0.04	0.03	-0.43	0.53	-0.20	-0.09	7307	-8.1
16	O104	B	-0.366	0.026	0.57	0.52	0.003	0.35	0.57	0.04	0.04	-0.41	0.52	-0.21	-0.07	7316	-6.6
17	O104	B	-0.366	0.026	0.57	0.50	0.003	0.35	0.57	0.04	0.04	-0.39	0.50	-0.19	-0.08	7330	-4.9
18	O104	B	-0.366	0.027	0.57	0.51	0.002	0.35	0.57	0.04	0.04	-0.43	0.51	-0.17	-0.05	7306	-3.3
19	O104	B	-0.366	0.027	0.58	0.51	0.003	0.34	0.58	0.04	0.04	-0.40	0.51	-0.21	-0.06	7337	-3.4
20	O104	B	-0.366	0.027	0.58	0.52	0.003	0.34	0.58	0.04	0.04	-0.41	0.52	-0.21	-0.06	7354	-3.6
1	O105	A	0.588	0.027	0.73	0.42	0.002	0.73	0.08	0.15	0.03	0.42	-0.23	-0.22	-0.21	7953	-2.7
2	O105	A	0.588	0.029	0.74	0.45	0.003	0.74	0.08	0.15	0.03	0.45	-0.26	-0.24	-0.19	7395	-3.1
3	O105	A	0.588	0.029	0.74	0.44	0.002	0.74	0.07	0.15	0.03	0.44	-0.25	-0.25	-0.20	7392	-0.1
4	O105	A	0.588	0.029	0.74	0.44	0.002	0.74	0.07	0.16	0.03	0.44	-0.25	-0.25	-0.20	7394	-2.2
5	O105	A	0.588	0.029	0.74	0.46	0.002	0.74	0.08	0.15	0.03	0.46	-0.25	-0.26	-0.20	7387	-3.2
6	O105	A	0.588	0.029	0.74	0.44	0.002	0.74	0.08	0.16	0.03	0.44	-0.25	-0.26	-0.19	7388	-1.3
7	O105	A	0.588	0.029	0.74	0.45	0.003	0.74	0.08	0.15	0.03	0.45	-0.26	-0.25	-0.21	7391	-2.1
8	O105	A	0.588	0.029	0.74	0.43	0.002	0.74	0.07	0.15	0.03	0.43	-0.24	-0.24	-0.22	7394	-2.1
9	O105	A	0.588	0.029	0.73	0.43	0.002	0.73	0.08	0.16	0.03	0.43	-0.24	-0.24	-0.19	7395	0.6
10	O105	A	0.588	0.029	0.73	0.44	0.002	0.73	0.08	0.16	0.03	0.44	-0.28	-0.23	-0.20	7377	0.5
11	O105	A	0.588	0.028	0.73	0.45	0.002	0.73	0.08	0.16	0.03	0.45	-0.27	-0.25	-0.20	7377	-4.5
12	O105	A	0.588	0.029	0.74	0.44	0.003	0.74	0.08	0.15	0.03	0.44	-0.24	-0.25	-0.19	7357	-0.9
13	O105	A	0.588	0.030	0.76	0.43	0.002	0.76	0.07	0.14	0.03	0.43	-0.25	-0.23	-0.22	7335	-0.9
14	O105	A	0.588	0.029	0.72	0.44	0.002	0.72	0.09	0.16	0.03	0.44	-0.26	-0.24	-0.18	7320	0.2
15	O105	A	0.588	0.029	0.73	0.43	0.003	0.73	0.08	0.16	0.03	0.43	-0.24	-0.24	-0.17	7307	1.1
16	O105	A	0.588	0.029	0.73	0.46	0.004	0.73	0.08	0.16	0.03	0.46	-0.25	-0.26	-0.20	7316	-3.8
17	O105	A	0.588	0.028	0.74	0.43	0.003	0.74	0.08	0.15	0.03	0.43	-0.25	-0.24	-0.20	7330	-1.5
18	O105	A	0.588	0.029	0.74	0.42	0.003	0.74	0.08	0.16	0.03	0.42	-0.23	-0.24	-0.20	7306	0.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O105	A	0.588	0.029	0.74	0.43	0.002	0.74	0.08	0.15	0.03	0.43	-0.25	-0.23	-0.18	7337	-0.6
20	O105	A	0.588	0.029	0.73	0.42	0.003	0.73	0.08	0.16	0.03	0.42	-0.23	-0.23	-0.20	7354	2.9
1	O106	A	-0.314	0.027	0.72	0.55	0.003	0.72	0.08	0.05	0.16	0.55	-0.23	-0.23	-0.37	7953	-9.7
2	O106	A	-0.314	0.029	0.74	0.55	0.003	0.74	0.07	0.04	0.15	0.55	-0.23	-0.22	-0.37	7395	-7.4
3	O106	A	-0.314	0.030	0.74	0.55	0.002	0.74	0.07	0.04	0.15	0.55	-0.22	-0.24	-0.38	7392	-5.8
4	O106	A	-0.314	0.029	0.74	0.53	0.002	0.74	0.07	0.04	0.15	0.53	-0.22	-0.23	-0.36	7394	-8.0
5	O106	A	-0.314	0.029	0.73	0.52	0.002	0.73	0.08	0.04	0.15	0.52	-0.22	-0.21	-0.36	7387	-4.8
6	O106	A	-0.314	0.029	0.75	0.54	0.001	0.75	0.07	0.04	0.15	0.54	-0.21	-0.21	-0.39	7388	-8.1
7	O106	A	-0.314	0.029	0.74	0.53	0.003	0.74	0.07	0.04	0.14	0.53	-0.24	-0.20	-0.35	7391	-5.5
8	O106	A	-0.314	0.029	0.74	0.55	0.002	0.74	0.07	0.04	0.15	0.55	-0.21	-0.24	-0.38	7394	-8.7
9	O106	A	-0.314	0.030	0.75	0.53	0.003	0.75	0.07	0.04	0.15	0.53	-0.22	-0.20	-0.38	7395	-6.5
10	O106	A	-0.314	0.029	0.74	0.55	0.002	0.74	0.07	0.04	0.15	0.55	-0.22	-0.23	-0.37	7377	-6.8
11	O106	A	-0.314	0.029	0.74	0.56	0.001	0.74	0.07	0.04	0.15	0.56	-0.22	-0.21	-0.40	7377	-9.9
12	O106	A	-0.314	0.029	0.74	0.55	0.003	0.74	0.07	0.04	0.15	0.55	-0.25	-0.21	-0.37	7357	-6.1
13	O106	A	-0.314	0.030	0.74	0.54	0.002	0.74	0.07	0.04	0.14	0.54	-0.22	-0.25	-0.35	7335	-3.3
14	O106	A	-0.314	0.029	0.75	0.55	0.002	0.75	0.07	0.04	0.14	0.55	-0.23	-0.22	-0.38	7320	-7.4
15	O106	A	-0.314	0.029	0.74	0.55	0.002	0.74	0.07	0.04	0.14	0.55	-0.23	-0.22	-0.37	7307	-7.8
16	O106	A	-0.314	0.029	0.74	0.53	0.003	0.74	0.07	0.04	0.15	0.53	-0.22	-0.21	-0.36	7316	-6.4
17	O106	A	-0.314	0.029	0.74	0.55	0.002	0.74	0.07	0.04	0.14	0.55	-0.24	-0.22	-0.37	7330	-9.5
18	O106	A	-0.314	0.030	0.74	0.55	0.002	0.74	0.07	0.04	0.15	0.55	-0.23	-0.23	-0.38	7306	-5.8
19	O106	A	-0.314	0.030	0.74	0.55	0.002	0.74	0.07	0.04	0.15	0.55	-0.22	-0.22	-0.38	7337	-5.7
20	O106	A	-0.314	0.030	0.75	0.53	0.003	0.75	0.07	0.04	0.14	0.53	-0.21	-0.23	-0.36	7354	-5.5
1	O107	B	-0.401	0.025	0.49	0.50	0.003	0.08	0.49	0.34	0.09	-0.15	0.50	-0.34	-0.15	7953	-1.4
2	O107	B	-0.401	0.026	0.47	0.47	0.004	0.08	0.47	0.36	0.09	-0.13	0.47	-0.31	-0.15	7395	-1.2
3	O107	B	-0.401	0.026	0.47	0.46	0.003	0.08	0.47	0.36	0.09	-0.11	0.46	-0.31	-0.16	7392	-0.1
4	O107	B	-0.401	0.026	0.53	0.54	0.004	0.07	0.53	0.32	0.08	-0.17	0.54	-0.36	-0.20	7394	-4.8
5	O107	B	-0.401	0.026	0.48	0.45	0.004	0.08	0.48	0.35	0.08	-0.12	0.45	-0.30	-0.16	7387	1.6
6	O107	B	-0.401	0.026	0.48	0.45	0.004	0.08	0.48	0.35	0.09	-0.13	0.45	-0.30	-0.16	7388	-0.9
7	O107	B	-0.401	0.026	0.47	0.47	0.004	0.08	0.47	0.35	0.09	-0.12	0.47	-0.31	-0.17	7391	-2.5
8	O107	B	-0.401	0.026	0.48	0.43	0.003	0.09	0.48	0.35	0.09	-0.11	0.43	-0.29	-0.16	7394	1.9
9	O107	B	-0.401	0.026	0.48	0.46	0.004	0.08	0.48	0.35	0.09	-0.13	0.46	-0.30	-0.17	7395	-0.3
10	O107	B	-0.401	0.026	0.50	0.48	0.004	0.08	0.50	0.35	0.08	-0.15	0.48	-0.30	-0.18	7377	-1.4
11	O107	B	-0.401	0.026	0.48	0.46	0.004	0.09	0.48	0.34	0.09	-0.13	0.46	-0.31	-0.14	7377	-1.1
12	O107	B	-0.401	0.026	0.48	0.46	0.004	0.09	0.48	0.35	0.09	-0.14	0.46	-0.30	-0.14	7357	0.7
13	O107	B	-0.401	0.026	0.51	0.51	0.003	0.08	0.51	0.33	0.08	-0.15	0.51	-0.34	-0.19	7335	-4.6
14	O107	B	-0.401	0.026	0.53	0.52	0.003	0.08	0.53	0.31	0.07	-0.17	0.52	-0.35	-0.17	7320	-3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O107	B	-0.401	0.026	0.46	0.44	0.004	0.09	0.46	0.35	0.09	-0.13	0.44	-0.28	-0.14	7307	1.3
16	O107	B	-0.401	0.026	0.48	0.45	0.006	0.08	0.48	0.35	0.09	-0.11	0.45	-0.30	-0.15	7316	-0.2
17	O107	B	-0.401	0.026	0.46	0.49	0.004	0.08	0.46	0.36	0.09	-0.12	0.49	-0.33	-0.16	7330	-3.5
18	O107	B	-0.401	0.026	0.50	0.48	0.003	0.08	0.50	0.34	0.08	-0.14	0.48	-0.32	-0.16	7306	-1.2
19	O107	B	-0.401	0.026	0.46	0.45	0.005	0.08	0.46	0.36	0.09	-0.11	0.45	-0.29	-0.16	7337	1.0
20	O107	B	-0.401	0.026	0.47	0.45	0.005	0.09	0.47	0.36	0.08	-0.12	0.45	-0.30	-0.14	7354	1.7
1	O108	B	1.090	0.030	0.81	0.47	0.004	0.13	0.81	0.04	0.02	-0.37	0.47	-0.15	-0.17	7953	-6.9
2	O108	B	1.090	0.032	0.81	0.42	0.003	0.12	0.81	0.05	0.02	-0.32	0.42	-0.16	-0.14	7395	0.9
3	O108	B	1.090	0.033	0.82	0.42	0.002	0.12	0.82	0.04	0.02	-0.34	0.42	-0.14	-0.16	7392	0.1
4	O108	B	1.090	0.032	0.82	0.41	0.004	0.12	0.82	0.05	0.02	-0.33	0.41	-0.14	-0.14	7394	-1.4
5	O108	B	1.090	0.032	0.82	0.43	0.003	0.12	0.82	0.05	0.02	-0.32	0.43	-0.17	-0.17	7387	-1.6
6	O108	B	1.090	0.033	0.82	0.43	0.002	0.12	0.82	0.04	0.02	-0.34	0.43	-0.16	-0.14	7388	-1.5
7	O108	B	1.090	0.033	0.81	0.44	0.004	0.13	0.81	0.05	0.02	-0.35	0.44	-0.17	-0.14	7391	-1.5
8	O108	B	1.090	0.032	0.82	0.42	0.003	0.12	0.82	0.04	0.02	-0.34	0.42	-0.14	-0.15	7394	-2.8
9	O108	B	1.090	0.033	0.82	0.43	0.002	0.12	0.82	0.04	0.02	-0.33	0.43	-0.16	-0.14	7395	-1.4
10	O108	B	1.090	0.033	0.81	0.43	0.004	0.12	0.81	0.04	0.02	-0.33	0.43	-0.16	-0.17	7377	-0.7
11	O108	B	1.090	0.032	0.82	0.43	0.002	0.12	0.82	0.04	0.02	-0.33	0.43	-0.16	-0.16	7377	-4.2
12	O108	B	1.090	0.033	0.82	0.45	0.003	0.12	0.82	0.05	0.02	-0.35	0.45	-0.17	-0.15	7357	-2.4
13	O108	B	1.090	0.033	0.81	0.44	0.003	0.13	0.81	0.05	0.02	-0.35	0.44	-0.16	-0.14	7335	1.1
14	O108	B	1.090	0.032	0.82	0.43	0.003	0.12	0.82	0.04	0.02	-0.35	0.43	-0.14	-0.14	7320	-3.8
15	O108	B	1.090	0.033	0.82	0.42	0.003	0.11	0.82	0.05	0.02	-0.32	0.42	-0.16	-0.14	7307	-2.7
16	O108	B	1.090	0.032	0.81	0.44	0.004	0.13	0.81	0.04	0.02	-0.33	0.44	-0.16	-0.17	7316	-1.2
17	O108	B	1.090	0.032	0.82	0.41	0.004	0.12	0.82	0.05	0.01	-0.31	0.41	-0.17	-0.15	7330	-2.6
18	O108	B	1.090	0.033	0.82	0.41	0.002	0.12	0.82	0.04	0.02	-0.33	0.41	-0.15	-0.13	7306	-1.3
19	O108	B	1.090	0.033	0.82	0.42	0.003	0.12	0.82	0.05	0.02	-0.33	0.42	-0.16	-0.13	7337	0.8
20	O108	B	1.090	0.033	0.81	0.44	0.003	0.12	0.81	0.05	0.02	-0.33	0.44	-0.17	-0.15	7354	0.4
1	O109	A	-0.906	0.026	0.65	0.50	0.003	0.65	0.09	0.17	0.09	0.50	-0.27	-0.27	-0.19	7953	-4.2
2	O109	A	-0.906	0.028	0.69	0.47	0.003	0.69	0.08	0.15	0.08	0.47	-0.24	-0.27	-0.18	7395	-2.5
3	O109	A	-0.906	0.028	0.70	0.48	0.002	0.70	0.08	0.14	0.08	0.48	-0.26	-0.26	-0.20	7392	-2.7
4	O109	A	-0.906	0.027	0.68	0.51	0.003	0.68	0.08	0.16	0.08	0.51	-0.27	-0.29	-0.19	7394	-4.3
5	O109	A	-0.906	0.028	0.68	0.49	0.003	0.68	0.08	0.15	0.09	0.49	-0.25	-0.27	-0.21	7387	-2.5
6	O109	A	-0.906	0.028	0.69	0.46	0.003	0.69	0.08	0.15	0.08	0.46	-0.24	-0.26	-0.18	7388	-1.1
7	O109	A	-0.906	0.028	0.69	0.50	0.003	0.69	0.07	0.15	0.08	0.50	-0.27	-0.28	-0.18	7391	-4.7
8	O109	A	-0.906	0.027	0.68	0.48	0.003	0.68	0.08	0.15	0.09	0.48	-0.25	-0.28	-0.19	7394	-3.2
9	O109	A	-0.906	0.028	0.69	0.47	0.002	0.69	0.08	0.15	0.08	0.47	-0.26	-0.26	-0.19	7395	-0.7
10	O109	A	-0.906	0.028	0.69	0.49	0.003	0.69	0.08	0.14	0.09	0.49	-0.24	-0.27	-0.21	7377	-1.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O109	A	-0.906	0.027	0.69	0.49	0.002	0.69	0.07	0.15	0.08	0.49	-0.25	-0.29	-0.20	7377	-7.8
12	O109	A	-0.906	0.028	0.73	0.49	0.003	0.73	0.06	0.14	0.07	0.49	-0.27	-0.28	-0.20	7357	-6.0
13	O109	A	-0.906	0.028	0.70	0.48	0.003	0.70	0.08	0.15	0.08	0.48	-0.27	-0.26	-0.19	7335	-0.5
14	O109	A	-0.906	0.028	0.67	0.45	0.002	0.67	0.07	0.15	0.10	0.45	-0.23	-0.27	-0.16	7320	3.4
15	O109	A	-0.906	0.028	0.68	0.45	0.003	0.68	0.07	0.15	0.09	0.45	-0.25	-0.26	-0.16	7307	2.2
16	O109	A	-0.906	0.028	0.68	0.47	0.004	0.68	0.08	0.15	0.09	0.47	-0.25	-0.26	-0.19	7316	-2.5
17	O109	A	-0.906	0.027	0.68	0.50	0.002	0.68	0.08	0.16	0.08	0.50	-0.26	-0.28	-0.19	7330	-4.5
18	O109	A	-0.906	0.028	0.70	0.48	0.002	0.70	0.08	0.15	0.08	0.48	-0.26	-0.27	-0.20	7306	-2.2
19	O109	A	-0.906	0.028	0.68	0.49	0.003	0.68	0.08	0.15	0.08	0.49	-0.24	-0.28	-0.21	7337	-1.4
20	O109	A	-0.906	0.028	0.69	0.49	0.003	0.69	0.08	0.15	0.08	0.49	-0.26	-0.26	-0.21	7354	-0.4
1	O110	B	-0.029	0.027	0.70	0.48	0.003	0.09	0.70	0.07	0.14	-0.26	0.48	-0.28	-0.20	7953	-6.3
2	O110	B	-0.029	0.029	0.72	0.45	0.003	0.08	0.72	0.07	0.13	-0.24	0.45	-0.29	-0.17	7395	-1.9
3	O110	B	-0.029	0.029	0.72	0.48	0.003	0.08	0.72	0.07	0.13	-0.27	0.48	-0.29	-0.19	7392	-2.2
4	O110	B	-0.029	0.028	0.73	0.48	0.003	0.08	0.73	0.07	0.12	-0.24	0.48	-0.31	-0.20	7394	-6.3
5	O110	B	-0.029	0.029	0.72	0.47	0.002	0.08	0.72	0.07	0.13	-0.26	0.47	-0.30	-0.18	7387	-2.7
6	O110	B	-0.029	0.029	0.73	0.47	0.002	0.08	0.73	0.06	0.13	-0.25	0.47	-0.30	-0.19	7388	-4.4
7	O110	B	-0.029	0.029	0.73	0.48	0.003	0.08	0.73	0.06	0.12	-0.27	0.48	-0.29	-0.19	7391	-4.2
8	O110	B	-0.029	0.029	0.72	0.47	0.002	0.08	0.72	0.07	0.13	-0.25	0.47	-0.32	-0.17	7394	-3.1
9	O110	B	-0.029	0.029	0.74	0.47	0.003	0.08	0.74	0.06	0.12	-0.25	0.47	-0.27	-0.21	7395	-4.3
10	O110	B	-0.029	0.029	0.73	0.47	0.003	0.08	0.73	0.07	0.13	-0.25	0.47	-0.30	-0.20	7377	-4.0
11	O110	B	-0.029	0.028	0.72	0.47	0.003	0.07	0.72	0.06	0.14	-0.25	0.47	-0.29	-0.20	7377	-5.9
12	O110	B	-0.029	0.029	0.72	0.46	0.003	0.08	0.72	0.06	0.13	-0.24	0.46	-0.30	-0.18	7357	-1.2
13	O110	B	-0.029	0.029	0.74	0.50	0.003	0.08	0.74	0.06	0.12	-0.26	0.50	-0.29	-0.22	7335	-5.0
14	O110	B	-0.029	0.029	0.72	0.48	0.002	0.09	0.72	0.07	0.12	-0.25	0.48	-0.30	-0.19	7320	-4.3
15	O110	B	-0.029	0.029	0.72	0.46	0.003	0.07	0.72	0.06	0.14	-0.24	0.46	-0.30	-0.18	7307	-1.5
16	O110	B	-0.029	0.029	0.74	0.48	0.004	0.08	0.74	0.06	0.12	-0.26	0.48	-0.29	-0.20	7316	-6.5
17	O110	B	-0.029	0.028	0.73	0.48	0.003	0.08	0.73	0.06	0.12	-0.26	0.48	-0.30	-0.19	7330	-6.1
18	O110	B	-0.029	0.029	0.73	0.46	0.002	0.08	0.73	0.07	0.12	-0.26	0.46	-0.29	-0.17	7306	-1.2
19	O110	B	-0.029	0.029	0.73	0.49	0.003	0.08	0.73	0.07	0.13	-0.25	0.49	-0.31	-0.19	7337	-3.8
20	O110	B	-0.029	0.029	0.73	0.48	0.003	0.08	0.73	0.07	0.12	-0.26	0.48	-0.30	-0.19	7354	-3.5
1	O111	A	-0.279	0.025	0.58	0.51	0.004	0.58	0.10	0.24	0.08	0.51	-0.28	-0.21	-0.25	7953	-6.1
2	O111	A	-0.279	0.026	0.59	0.50	0.004	0.59	0.10	0.25	0.06	0.50	-0.28	-0.22	-0.25	7395	-4.6
3	O111	A	-0.279	0.027	0.61	0.49	0.003	0.61	0.10	0.23	0.06	0.49	-0.30	-0.20	-0.25	7392	-3.6
4	O111	A	-0.279	0.026	0.61	0.49	0.003	0.61	0.09	0.24	0.07	0.49	-0.26	-0.22	-0.27	7394	-4.5
5	O111	A	-0.279	0.026	0.61	0.51	0.003	0.61	0.10	0.22	0.06	0.51	-0.31	-0.22	-0.24	7387	-5.9
6	O111	A	-0.279	0.026	0.60	0.50	0.003	0.60	0.10	0.24	0.06	0.50	-0.29	-0.21	-0.26	7388	-5.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O111	A	-0.279	0.026	0.58	0.48	0.004	0.58	0.10	0.25	0.07	0.48	-0.27	-0.19	-0.26	7391	-2.2
8	O111	A	-0.279	0.026	0.61	0.50	0.003	0.61	0.10	0.22	0.07	0.50	-0.28	-0.21	-0.25	7394	-5.8
9	O111	A	-0.279	0.026	0.60	0.50	0.003	0.60	0.10	0.23	0.06	0.50	-0.28	-0.22	-0.25	7395	-4.5
10	O111	A	-0.279	0.026	0.60	0.51	0.003	0.60	0.09	0.24	0.07	0.51	-0.29	-0.22	-0.27	7377	-5.6
11	O111	A	-0.279	0.026	0.60	0.50	0.003	0.60	0.10	0.23	0.07	0.50	-0.28	-0.22	-0.25	7377	-7.4
12	O111	A	-0.279	0.027	0.59	0.50	0.003	0.59	0.10	0.24	0.07	0.50	-0.29	-0.21	-0.26	7357	-3.0
13	O111	A	-0.279	0.027	0.60	0.50	0.003	0.60	0.09	0.23	0.07	0.50	-0.29	-0.21	-0.26	7335	-2.9
14	O111	A	-0.279	0.026	0.60	0.50	0.004	0.60	0.09	0.24	0.07	0.50	-0.29	-0.20	-0.26	7320	-4.6
15	O111	A	-0.279	0.027	0.60	0.49	0.003	0.60	0.09	0.24	0.06	0.49	-0.28	-0.20	-0.27	7307	-3.4
16	O111	A	-0.279	0.026	0.59	0.50	0.004	0.59	0.10	0.24	0.07	0.50	-0.29	-0.20	-0.25	7316	-5.2
17	O111	A	-0.279	0.026	0.59	0.51	0.004	0.59	0.10	0.24	0.07	0.51	-0.28	-0.21	-0.26	7330	-5.6
18	O111	A	-0.279	0.027	0.60	0.50	0.003	0.60	0.09	0.24	0.07	0.50	-0.27	-0.22	-0.26	7306	-3.8
19	O111	A	-0.279	0.027	0.59	0.49	0.004	0.59	0.10	0.24	0.07	0.49	-0.28	-0.21	-0.25	7337	-2.8
20	O111	A	-0.279	0.027	0.60	0.48	0.004	0.60	0.10	0.23	0.07	0.48	-0.28	-0.19	-0.26	7354	-2.4
1	O112	C	0.484	0.025	0.54	0.44	0.004	0.10	0.19	0.54	0.16	-0.27	-0.17	0.44	-0.17	7953	1.7
2	O112	C	0.484	0.026	0.56	0.44	0.004	0.10	0.18	0.56	0.15	-0.24	-0.20	0.44	-0.18	7395	0.8
3	O112	C	0.484	0.026	0.57	0.43	0.003	0.09	0.19	0.57	0.15	-0.26	-0.18	0.43	-0.17	7392	3.3
4	O112	C	0.484	0.026	0.55	0.45	0.004	0.10	0.19	0.55	0.16	-0.26	-0.18	0.45	-0.19	7394	1.8
5	O112	C	0.484	0.026	0.56	0.45	0.003	0.10	0.18	0.56	0.16	-0.27	-0.19	0.45	-0.18	7387	1.2
6	O112	C	0.484	0.026	0.57	0.44	0.002	0.09	0.18	0.57	0.16	-0.27	-0.19	0.44	-0.17	7388	0.0
7	O112	C	0.484	0.026	0.57	0.45	0.003	0.10	0.18	0.57	0.15	-0.28	-0.18	0.45	-0.18	7391	-0.0
8	O112	C	0.484	0.026	0.57	0.45	0.003	0.09	0.18	0.57	0.16	-0.28	-0.19	0.45	-0.17	7394	-1.1
9	O112	C	0.484	0.026	0.57	0.43	0.003	0.09	0.19	0.57	0.15	-0.26	-0.18	0.43	-0.17	7395	2.5
10	O112	C	0.484	0.026	0.58	0.45	0.003	0.10	0.17	0.58	0.15	-0.28	-0.19	0.45	-0.17	7377	0.6
11	O112	C	0.484	0.026	0.56	0.45	0.003	0.09	0.19	0.56	0.15	-0.27	-0.19	0.45	-0.19	7377	-1.6
12	O112	C	0.484	0.026	0.57	0.44	0.003	0.10	0.17	0.57	0.15	-0.26	-0.17	0.44	-0.18	7357	2.0
13	O112	C	0.484	0.027	0.56	0.41	0.004	0.10	0.22	0.56	0.13	-0.26	-0.18	0.41	-0.14	7335	4.7
14	O112	C	0.484	0.026	0.56	0.44	0.004	0.10	0.19	0.56	0.15	-0.27	-0.17	0.44	-0.18	7320	1.3
15	O112	C	0.484	0.026	0.56	0.45	0.003	0.10	0.18	0.56	0.15	-0.26	-0.19	0.45	-0.17	7307	0.6
16	O112	C	0.484	0.026	0.57	0.44	0.004	0.10	0.18	0.57	0.15	-0.27	-0.18	0.44	-0.18	7316	0.2
17	O112	C	0.484	0.026	0.56	0.44	0.003	0.09	0.18	0.56	0.16	-0.26	-0.19	0.44	-0.18	7330	0.8
18	O112	C	0.484	0.026	0.56	0.45	0.003	0.10	0.18	0.56	0.16	-0.27	-0.18	0.45	-0.18	7306	1.2
19	O112	C	0.484	0.027	0.57	0.45	0.003	0.09	0.18	0.57	0.15	-0.28	-0.18	0.45	-0.19	7337	1.5
20	O112	C	0.484	0.027	0.57	0.45	0.004	0.10	0.18	0.57	0.16	-0.27	-0.18	0.45	-0.19	7354	1.4
1	O113	D	0.651	0.027	0.70	0.55	0.003	0.08	0.12	0.10	0.70	-0.29	-0.23	-0.31	0.55	7953	-8.6
2	O113	D	0.651	0.029	0.73	0.55	0.004	0.06	0.12	0.09	0.73	-0.28	-0.23	-0.32	0.55	7395	-8.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O113	D	0.651	0.029	0.73	0.56	0.002	0.07	0.11	0.08	0.73	-0.32	-0.24	-0.31	0.56	7392	-7.4
4	O113	D	0.651	0.029	0.73	0.56	0.003	0.06	0.11	0.09	0.73	-0.28	-0.25	-0.33	0.56	7394	-9.8
5	O113	D	0.651	0.029	0.73	0.54	0.003	0.07	0.12	0.08	0.73	-0.28	-0.26	-0.30	0.54	7387	-8.0
6	O113	D	0.651	0.029	0.72	0.54	0.003	0.07	0.13	0.09	0.72	-0.28	-0.25	-0.30	0.54	7388	-6.5
7	O113	D	0.651	0.029	0.73	0.54	0.003	0.06	0.12	0.08	0.73	-0.29	-0.24	-0.30	0.54	7391	-6.7
8	O113	D	0.651	0.029	0.72	0.54	0.003	0.07	0.12	0.08	0.72	-0.27	-0.24	-0.32	0.54	7394	-7.4
9	O113	D	0.651	0.029	0.75	0.57	0.003	0.06	0.10	0.09	0.75	-0.28	-0.26	-0.33	0.57	7395	-9.9
10	O113	D	0.651	0.029	0.73	0.55	0.003	0.07	0.11	0.09	0.73	-0.29	-0.24	-0.31	0.55	7377	-7.8
11	O113	D	0.651	0.028	0.72	0.55	0.003	0.07	0.12	0.09	0.72	-0.30	-0.22	-0.32	0.55	7377	-9.2
12	O113	D	0.651	0.029	0.74	0.55	0.002	0.06	0.11	0.08	0.74	-0.29	-0.25	-0.31	0.55	7357	-6.5
13	O113	D	0.651	0.030	0.73	0.56	0.003	0.07	0.11	0.09	0.73	-0.29	-0.24	-0.32	0.56	7335	-5.8
14	O113	D	0.651	0.029	0.75	0.56	0.003	0.06	0.09	0.09	0.75	-0.30	-0.25	-0.32	0.56	7320	-9.9
15	O113	D	0.651	0.029	0.73	0.56	0.003	0.07	0.11	0.08	0.73	-0.29	-0.26	-0.31	0.56	7307	-8.5
16	O113	D	0.651	0.029	0.73	0.52	0.004	0.07	0.12	0.08	0.73	-0.29	-0.22	-0.29	0.52	7316	-6.0
17	O113	D	0.651	0.029	0.72	0.54	0.003	0.07	0.12	0.08	0.72	-0.28	-0.24	-0.31	0.54	7330	-7.6
18	O113	D	0.651	0.029	0.73	0.56	0.002	0.07	0.11	0.09	0.73	-0.29	-0.25	-0.33	0.56	7306	-6.8
19	O113	D	0.651	0.029	0.75	0.57	0.003	0.06	0.10	0.08	0.75	-0.32	-0.25	-0.31	0.57	7337	-9.9
20	O113	D	0.651	0.029	0.73	0.55	0.004	0.07	0.12	0.09	0.73	-0.29	-0.23	-0.32	0.55	7354	-6.0
1	O114	D	-0.324	0.025	0.70	0.55	0.003	0.08	0.12	0.10	0.70	-0.29	-0.23	-0.31	0.55	7953	2.0
2	O114	D	-0.324	0.027	0.73	0.55	0.004	0.06	0.12	0.09	0.73	-0.28	-0.23	-0.32	0.55	7395	3.1
3	O114	D	-0.324	0.027	0.73	0.56	0.002	0.07	0.11	0.08	0.73	-0.32	-0.24	-0.31	0.56	7392	6.4
4	O114	D	-0.324	0.027	0.73	0.56	0.003	0.06	0.11	0.09	0.73	-0.28	-0.25	-0.33	0.56	7394	2.0
5	O114	D	-0.324	0.027	0.73	0.54	0.003	0.07	0.12	0.08	0.73	-0.28	-0.26	-0.30	0.54	7387	5.5
6	O114	D	-0.324	0.027	0.72	0.54	0.003	0.07	0.13	0.09	0.72	-0.28	-0.25	-0.30	0.54	7388	3.3
7	O114	D	-0.324	0.027	0.73	0.54	0.003	0.06	0.12	0.08	0.73	-0.29	-0.24	-0.30	0.54	7391	5.0
8	O114	D	-0.324	0.027	0.72	0.54	0.003	0.07	0.12	0.08	0.72	-0.27	-0.24	-0.32	0.54	7394	2.3
9	O114	D	-0.324	0.027	0.75	0.57	0.003	0.06	0.10	0.09	0.75	-0.28	-0.26	-0.33	0.57	7395	3.7
10	O114	D	-0.324	0.027	0.73	0.55	0.003	0.07	0.11	0.09	0.73	-0.29	-0.24	-0.31	0.55	7377	2.1
11	O114	D	-0.324	0.026	0.72	0.55	0.003	0.07	0.12	0.09	0.72	-0.30	-0.22	-0.32	0.55	7377	0.8
12	O114	D	-0.324	0.027	0.74	0.55	0.002	0.06	0.11	0.08	0.74	-0.29	-0.25	-0.31	0.55	7357	3.6
13	O114	D	-0.324	0.027	0.73	0.56	0.003	0.07	0.11	0.09	0.73	-0.29	-0.24	-0.32	0.56	7335	8.3
14	O114	D	-0.324	0.027	0.75	0.56	0.003	0.06	0.09	0.09	0.75	-0.30	-0.25	-0.32	0.56	7320	4.1
15	O114	D	-0.324	0.027	0.73	0.56	0.003	0.07	0.11	0.08	0.73	-0.29	-0.26	-0.31	0.56	7307	4.7
16	O114	D	-0.324	0.027	0.73	0.52	0.004	0.07	0.12	0.08	0.73	-0.29	-0.22	-0.29	0.52	7316	4.4
17	O114	D	-0.324	0.027	0.72	0.54	0.003	0.07	0.12	0.08	0.72	-0.28	-0.24	-0.31	0.54	7330	4.4
18	O114	D	-0.324	0.027	0.73	0.56	0.002	0.07	0.11	0.09	0.73	-0.29	-0.25	-0.33	0.56	7306	7.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O114	D	-0.324	0.027	0.75	0.57	0.003	0.06	0.10	0.08	0.75	-0.32	-0.25	-0.31	0.57	7337	7.3
20	O114	D	-0.324	0.027	0.73	0.55	0.004	0.07	0.12	0.09	0.73	-0.29	-0.23	-0.32	0.55	7354	5.5

Appendix X:

**2005 Common Grade 11 Multiple Choice Statistics for
Mathematics**

2005 Common Grade 11 Multiple Choice Statistics for Mathematics

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
1	O001	C	-0.375	0.028	0.65	0.46	0.003	0.13	0.03	0.65	0.19	-0.23	-0.16	0.46	-0.28	6942	0.5
2	O001	C	-0.375	0.030	0.68	0.45	0.002	0.12	0.03	0.68	0.17	-0.23	-0.15	0.45	-0.27	6569	1.1
3	O001	C	-0.375	0.030	0.67	0.46	0.002	0.12	0.03	0.67	0.18	-0.24	-0.16	0.46	-0.28	6581	-1.4
4	O001	C	-0.375	0.029	0.67	0.48	0.002	0.12	0.03	0.67	0.18	-0.24	-0.16	0.48	-0.30	6542	-2.8
5	O001	C	-0.375	0.030	0.66	0.46	0.004	0.12	0.03	0.66	0.18	-0.21	-0.17	0.46	-0.29	6531	2.2
6	O001	C	-0.375	0.030	0.67	0.45	0.002	0.12	0.03	0.67	0.18	-0.24	-0.16	0.45	-0.27	6544	0.2
7	O001	C	-0.375	0.030	0.67	0.45	0.002	0.13	0.03	0.67	0.18	-0.23	-0.17	0.45	-0.28	6544	1.9
8	O001	C	-0.375	0.029	0.66	0.45	0.002	0.13	0.03	0.66	0.18	-0.22	-0.17	0.45	-0.27	6560	1.4
9	O001	C	-0.375	0.030	0.67	0.45	0.002	0.12	0.03	0.67	0.18	-0.22	-0.16	0.45	-0.29	6552	2.2
10	O001	C	-0.375	0.029	0.67	0.45	0.002	0.12	0.03	0.67	0.18	-0.23	-0.16	0.45	-0.27	6554	0.6
11	O001	C	-0.375	0.030	0.68	0.45	0.002	0.11	0.03	0.68	0.17	-0.20	-0.17	0.45	-0.30	6512	-0.1
12	O001	C	-0.375	0.029	0.66	0.44	0.003	0.12	0.03	0.66	0.19	-0.21	-0.17	0.44	-0.28	6542	1.7
13	O001	C	-0.375	0.029	0.67	0.44	0.003	0.13	0.03	0.67	0.17	-0.22	-0.16	0.44	-0.27	6541	-1.5
14	O001	C	-0.375	0.030	0.68	0.45	0.002	0.12	0.03	0.68	0.17	-0.22	-0.15	0.45	-0.29	6518	0.9
15	O001	C	-0.375	0.030	0.68	0.44	0.002	0.12	0.03	0.68	0.17	-0.22	-0.14	0.44	-0.28	6519	1.7
16	O001	C	-0.375	0.030	0.67	0.45	0.002	0.12	0.03	0.67	0.18	-0.23	-0.13	0.45	-0.29	6511	1.1
17	O001	C	-0.375	0.030	0.66	0.45	0.003	0.13	0.03	0.66	0.18	-0.22	-0.17	0.45	-0.27	6531	3.9
18	O001	C	-0.375	0.030	0.67	0.44	0.002	0.12	0.03	0.67	0.18	-0.21	-0.18	0.44	-0.26	6514	4.3
19	O001	C	-0.375	0.030	0.67	0.45	0.002	0.12	0.03	0.67	0.18	-0.23	-0.15	0.45	-0.28	6559	1.7
20	O001	C	-0.375	0.030	0.67	0.46	0.002	0.12	0.03	0.67	0.18	-0.23	-0.18	0.46	-0.29	6534	1.4
1	O002	C	-0.937	0.031	0.75	0.49	0.004	0.04	0.15	0.75	0.06	-0.18	-0.37	0.49	-0.18	6942	-5.1
2	O002	C	-0.937	0.032	0.76	0.51	0.003	0.04	0.15	0.76	0.05	-0.19	-0.38	0.51	-0.18	6569	-4.8
3	O002	C	-0.937	0.032	0.76	0.51	0.002	0.04	0.15	0.76	0.06	-0.17	-0.39	0.51	-0.18	6581	-3.6
4	O002	C	-0.937	0.032	0.76	0.51	0.002	0.04	0.15	0.76	0.05	-0.17	-0.38	0.51	-0.19	6542	-6.4
5	O002	C	-0.937	0.032	0.76	0.49	0.004	0.04	0.15	0.76	0.05	-0.16	-0.36	0.49	-0.18	6531	-2.8
6	O002	C	-0.937	0.032	0.75	0.49	0.003	0.04	0.15	0.75	0.06	-0.16	-0.36	0.49	-0.20	6544	-1.8
7	O002	C	-0.937	0.032	0.76	0.48	0.004	0.04	0.14	0.76	0.06	-0.18	-0.36	0.48	-0.18	6544	-3.0
8	O002	C	-0.937	0.032	0.76	0.50	0.003	0.03	0.15	0.76	0.05	-0.18	-0.38	0.50	-0.18	6560	-5.3
9	O002	C	-0.937	0.032	0.77	0.50	0.003	0.03	0.14	0.77	0.05	-0.15	-0.38	0.50	-0.20	6552	-5.1
10	O002	C	-0.937	0.032	0.76	0.49	0.003	0.04	0.15	0.76	0.05	-0.18	-0.36	0.49	-0.18	6554	-4.9
11	O002	C	-0.937	0.032	0.76	0.51	0.003	0.04	0.14	0.76	0.06	-0.18	-0.39	0.51	-0.19	6512	-5.2
12	O002	C	-0.937	0.032	0.76	0.49	0.003	0.03	0.14	0.76	0.06	-0.18	-0.35	0.49	-0.20	6542	-5.6
13	O002	C	-0.937	0.032	0.76	0.51	0.003	0.04	0.14	0.76	0.06	-0.17	-0.39	0.51	-0.20	6541	-7.5
14	O002	C	-0.937	0.032	0.76	0.49	0.003	0.04	0.14	0.76	0.06	-0.17	-0.35	0.49	-0.20	6518	-1.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O002	C	-0.937	0.032	0.75	0.51	0.002	0.04	0.15	0.75	0.06	-0.17	-0.38	0.51	-0.20	6519	-2.8
16	O002	C	-0.937	0.032	0.76	0.50	0.003	0.04	0.14	0.76	0.06	-0.18	-0.37	0.50	-0.19	6511	-4.3
17	O002	C	-0.937	0.032	0.76	0.49	0.005	0.04	0.14	0.76	0.06	-0.18	-0.36	0.49	-0.19	6531	-3.8
18	O002	C	-0.937	0.033	0.76	0.49	0.004	0.04	0.14	0.76	0.06	-0.18	-0.36	0.49	-0.19	6514	-2.4
19	O002	C	-0.937	0.032	0.76	0.51	0.003	0.03	0.15	0.76	0.06	-0.17	-0.38	0.51	-0.21	6559	-4.7
20	O002	C	-0.937	0.033	0.75	0.51	0.002	0.04	0.15	0.75	0.06	-0.17	-0.40	0.51	-0.18	6534	-2.1
1	O003	B	0.163	0.028	0.58	0.52	0.004	0.09	0.58	0.16	0.17	-0.09	0.52	-0.21	-0.40	6942	-3.0
2	O003	B	0.163	0.028	0.59	0.49	0.003	0.08	0.59	0.16	0.18	-0.08	0.49	-0.21	-0.37	6569	-1.0
3	O003	B	0.163	0.028	0.59	0.52	0.003	0.08	0.59	0.15	0.18	-0.08	0.52	-0.22	-0.40	6581	-2.5
4	O003	B	0.163	0.028	0.58	0.51	0.003	0.09	0.58	0.16	0.18	-0.06	0.51	-0.23	-0.39	6542	-4.2
5	O003	B	0.163	0.029	0.57	0.50	0.004	0.09	0.57	0.15	0.18	-0.07	0.50	-0.21	-0.38	6531	0.9
6	O003	B	0.163	0.029	0.58	0.51	0.002	0.09	0.58	0.16	0.18	-0.08	0.51	-0.20	-0.39	6544	-0.2
7	O003	B	0.163	0.029	0.57	0.49	0.003	0.09	0.57	0.15	0.19	-0.05	0.49	-0.20	-0.38	6544	0.8
8	O003	B	0.163	0.028	0.58	0.50	0.003	0.08	0.58	0.16	0.18	-0.06	0.50	-0.20	-0.40	6560	-1.9
9	O003	B	0.163	0.029	0.59	0.51	0.003	0.09	0.59	0.15	0.17	-0.09	0.51	-0.21	-0.39	6552	-1.3
10	O003	B	0.163	0.028	0.59	0.51	0.003	0.08	0.59	0.15	0.17	-0.07	0.51	-0.22	-0.38	6554	-2.6
11	O003	B	0.163	0.029	0.58	0.53	0.003	0.08	0.58	0.15	0.19	-0.08	0.53	-0.23	-0.39	6512	-3.0
12	O003	B	0.163	0.028	0.59	0.51	0.003	0.08	0.59	0.16	0.18	-0.08	0.51	-0.21	-0.39	6542	-3.3
13	O003	B	0.163	0.028	0.58	0.52	0.004	0.08	0.58	0.15	0.18	-0.06	0.52	-0.24	-0.39	6541	-5.6
14	O003	B	0.163	0.029	0.59	0.50	0.003	0.08	0.59	0.15	0.18	-0.08	0.50	-0.21	-0.39	6518	0.3
15	O003	B	0.163	0.029	0.58	0.50	0.002	0.08	0.58	0.16	0.18	-0.06	0.50	-0.21	-0.39	6519	0.1
16	O003	B	0.163	0.029	0.59	0.49	0.003	0.08	0.59	0.15	0.18	-0.08	0.49	-0.20	-0.38	6511	0.7
17	O003	B	0.163	0.029	0.59	0.52	0.004	0.08	0.59	0.15	0.18	-0.09	0.52	-0.22	-0.38	6531	-0.6
18	O003	B	0.163	0.029	0.58	0.51	0.003	0.08	0.58	0.15	0.18	-0.08	0.51	-0.21	-0.39	6514	0.7
19	O003	B	0.163	0.029	0.60	0.52	0.002	0.08	0.60	0.15	0.18	-0.07	0.52	-0.21	-0.42	6559	-1.5
20	O003	B	0.163	0.029	0.59	0.51	0.003	0.08	0.59	0.15	0.18	-0.08	0.51	-0.20	-0.40	6534	-0.6
1	O004	B	0.296	0.027	0.56	0.42	0.003	0.12	0.56	0.23	0.09	-0.26	0.42	-0.13	-0.22	6942	6.5
2	O004	B	0.296	0.028	0.57	0.42	0.002	0.12	0.57	0.22	0.09	-0.26	0.42	-0.11	-0.24	6569	6.3
3	O004	B	0.296	0.028	0.57	0.40	0.002	0.12	0.57	0.22	0.09	-0.25	0.40	-0.11	-0.24	6581	8.3
4	O004	B	0.296	0.028	0.56	0.42	0.002	0.13	0.56	0.22	0.09	-0.26	0.42	-0.12	-0.23	6542	5.2
5	O004	B	0.296	0.029	0.56	0.41	0.004	0.13	0.56	0.22	0.09	-0.24	0.41	-0.12	-0.22	6531	8.8
6	O004	B	0.296	0.028	0.55	0.41	0.002	0.12	0.55	0.23	0.10	-0.24	0.41	-0.12	-0.23	6544	9.4
7	O004	B	0.296	0.028	0.57	0.38	0.003	0.12	0.57	0.22	0.09	-0.26	0.38	-0.09	-0.22	6544	9.9
8	O004	B	0.296	0.028	0.57	0.41	0.002	0.13	0.57	0.21	0.09	-0.26	0.41	-0.11	-0.23	6560	6.6
9	O004	B	0.296	0.029	0.55	0.41	0.003	0.13	0.55	0.23	0.09	-0.27	0.41	-0.10	-0.24	6552	8.2
10	O004	B	0.296	0.028	0.57	0.42	0.002	0.12	0.57	0.22	0.09	-0.26	0.42	-0.13	-0.23	6554	4.7

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O004	B	0.296	0.029	0.56	0.41	0.003	0.13	0.56	0.22	0.09	-0.25	0.41	-0.12	-0.23	6512	7.5
12	O004	B	0.296	0.028	0.56	0.40	0.003	0.12	0.56	0.22	0.10	-0.25	0.40	-0.10	-0.23	6542	6.2
13	O004	B	0.296	0.028	0.56	0.39	0.003	0.12	0.56	0.23	0.09	-0.25	0.39	-0.11	-0.21	6541	6.2
14	O004	B	0.296	0.029	0.57	0.39	0.003	0.12	0.57	0.22	0.09	-0.24	0.39	-0.12	-0.21	6518	8.8
15	O004	B	0.296	0.028	0.57	0.40	0.002	0.12	0.57	0.22	0.09	-0.27	0.40	-0.11	-0.22	6519	8.8
16	O004	B	0.296	0.028	0.56	0.39	0.002	0.12	0.56	0.22	0.09	-0.23	0.39	-0.12	-0.21	6511	9.9
17	O004	B	0.296	0.029	0.55	0.42	0.003	0.12	0.55	0.23	0.09	-0.25	0.42	-0.12	-0.24	6531	8.1
18	O004	B	0.296	0.029	0.56	0.43	0.003	0.13	0.56	0.22	0.09	-0.28	0.43	-0.13	-0.22	6514	7.7
19	O004	B	0.296	0.029	0.56	0.41	0.002	0.12	0.56	0.22	0.09	-0.24	0.41	-0.13	-0.22	6559	8.6
20	O004	B	0.296	0.029	0.57	0.41	0.002	0.12	0.57	0.22	0.09	-0.26	0.41	-0.11	-0.23	6534	9.0
1	O006	B	-1.326	0.033	0.79	0.53	0.003	0.04	0.79	0.03	0.14	-0.14	0.53	-0.20	-0.43	6942	-6.0
2	O006	B	-1.326	0.035	0.80	0.53	0.003	0.04	0.80	0.03	0.13	-0.13	0.53	-0.18	-0.45	6569	-6.0
3	O006	B	-1.326	0.034	0.80	0.53	0.003	0.03	0.80	0.04	0.13	-0.12	0.53	-0.22	-0.44	6581	-6.5
4	O006	B	-1.326	0.034	0.80	0.53	0.003	0.04	0.80	0.03	0.13	-0.12	0.53	-0.18	-0.45	6542	-7.0
5	O006	B	-1.326	0.035	0.80	0.53	0.004	0.03	0.80	0.03	0.13	-0.12	0.53	-0.19	-0.44	6531	-5.1
6	O006	B	-1.326	0.035	0.81	0.53	0.002	0.04	0.81	0.03	0.13	-0.12	0.53	-0.20	-0.44	6544	-5.4
7	O006	B	-1.326	0.035	0.81	0.51	0.003	0.04	0.81	0.03	0.12	-0.11	0.51	-0.20	-0.43	6544	-5.7
8	O006	B	-1.326	0.034	0.80	0.52	0.002	0.04	0.80	0.03	0.12	-0.12	0.52	-0.20	-0.43	6560	-6.6
9	O006	B	-1.326	0.035	0.81	0.52	0.003	0.04	0.81	0.03	0.12	-0.12	0.52	-0.20	-0.44	6552	-6.2
10	O006	B	-1.326	0.034	0.81	0.51	0.002	0.03	0.81	0.03	0.13	-0.11	0.51	-0.20	-0.43	6554	-6.5
11	O006	B	-1.326	0.035	0.81	0.52	0.002	0.03	0.81	0.03	0.13	-0.12	0.52	-0.18	-0.44	6512	-5.4
12	O006	B	-1.326	0.034	0.81	0.52	0.003	0.03	0.81	0.03	0.13	-0.12	0.52	-0.20	-0.43	6542	-7.0
13	O006	B	-1.326	0.034	0.81	0.52	0.003	0.04	0.81	0.03	0.13	-0.12	0.52	-0.21	-0.43	6541	-6.0
14	O006	B	-1.326	0.035	0.80	0.52	0.003	0.04	0.80	0.03	0.13	-0.12	0.52	-0.20	-0.43	6518	-5.0
15	O006	B	-1.326	0.035	0.81	0.51	0.003	0.03	0.81	0.03	0.13	-0.10	0.51	-0.19	-0.43	6519	-5.0
16	O006	B	-1.326	0.035	0.81	0.52	0.003	0.03	0.81	0.03	0.13	-0.12	0.52	-0.19	-0.44	6511	-5.5
17	O006	B	-1.326	0.035	0.81	0.52	0.004	0.03	0.81	0.03	0.12	-0.12	0.52	-0.20	-0.43	6531	-5.6
18	O006	B	-1.326	0.035	0.80	0.55	0.003	0.04	0.80	0.03	0.13	-0.14	0.55	-0.21	-0.45	6514	-5.0
19	O006	B	-1.326	0.035	0.81	0.52	0.002	0.04	0.81	0.03	0.13	-0.13	0.52	-0.19	-0.44	6559	-6.2
20	O006	B	-1.326	0.035	0.80	0.53	0.002	0.04	0.80	0.03	0.13	-0.12	0.53	-0.19	-0.45	6534	-4.3
1	O007	C	-0.654	0.029	0.70	0.41	0.005	0.05	0.21	0.70	0.04	-0.21	-0.26	0.41	-0.17	6942	0.9
2	O007	C	-0.654	0.031	0.72	0.39	0.005	0.04	0.20	0.72	0.03	-0.20	-0.26	0.39	-0.16	6569	3.3
3	O007	C	-0.654	0.031	0.72	0.40	0.004	0.05	0.19	0.72	0.04	-0.21	-0.26	0.40	-0.18	6581	1.2
4	O007	C	-0.654	0.030	0.73	0.41	0.004	0.06	0.18	0.73	0.03	-0.21	-0.26	0.41	-0.15	6542	-1.4
5	O007	C	-0.654	0.031	0.72	0.41	0.005	0.05	0.19	0.72	0.04	-0.20	-0.26	0.41	-0.17	6531	2.3
6	O007	C	-0.654	0.031	0.71	0.41	0.005	0.06	0.19	0.71	0.04	-0.21	-0.26	0.41	-0.17	6544	3.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O007	C	-0.654	0.031	0.72	0.42	0.006	0.05	0.19	0.72	0.04	-0.21	-0.26	0.42	-0.19	6544	1.7
8	O007	C	-0.654	0.030	0.72	0.42	0.006	0.05	0.20	0.72	0.03	-0.21	-0.27	0.42	-0.18	6560	1.2
9	O007	C	-0.654	0.031	0.73	0.42	0.004	0.05	0.19	0.73	0.03	-0.20	-0.28	0.42	-0.17	6552	0.9
10	O007	C	-0.654	0.030	0.72	0.41	0.004	0.05	0.20	0.72	0.03	-0.21	-0.27	0.41	-0.17	6554	0.7
11	O007	C	-0.654	0.031	0.71	0.41	0.005	0.05	0.21	0.71	0.04	-0.21	-0.27	0.41	-0.16	6512	2.9
12	O007	C	-0.654	0.030	0.72	0.42	0.006	0.05	0.19	0.72	0.04	-0.22	-0.25	0.42	-0.19	6542	0.2
13	O007	C	-0.654	0.030	0.73	0.42	0.005	0.05	0.19	0.73	0.03	-0.19	-0.27	0.42	-0.18	6541	-1.5
14	O007	C	-0.654	0.031	0.72	0.41	0.005	0.06	0.19	0.72	0.03	-0.21	-0.27	0.41	-0.15	6518	1.8
15	O007	C	-0.654	0.031	0.72	0.43	0.005	0.06	0.19	0.72	0.03	-0.21	-0.27	0.43	-0.18	6519	2.1
16	O007	C	-0.654	0.031	0.72	0.41	0.006	0.05	0.19	0.72	0.04	-0.18	-0.27	0.41	-0.17	6511	1.9
17	O007	C	-0.654	0.031	0.72	0.42	0.006	0.05	0.20	0.72	0.03	-0.19	-0.28	0.42	-0.17	6531	1.5
18	O007	C	-0.654	0.031	0.72	0.42	0.005	0.05	0.20	0.72	0.03	-0.20	-0.28	0.42	-0.15	6514	5.5
19	O007	C	-0.654	0.031	0.71	0.41	0.005	0.05	0.20	0.71	0.03	-0.20	-0.27	0.41	-0.16	6559	2.2
20	O007	C	-0.654	0.031	0.71	0.40	0.004	0.04	0.21	0.71	0.03	-0.19	-0.28	0.40	-0.16	6534	2.9
1	O008	C	-0.644	0.029	0.70	0.53	0.003	0.07	0.15	0.70	0.07	-0.33	-0.36	0.53	-0.08	6942	-4.0
2	O008	C	-0.644	0.031	0.71	0.51	0.003	0.07	0.15	0.71	0.07	-0.34	-0.35	0.51	-0.06	6569	-1.6
3	O008	C	-0.644	0.030	0.71	0.54	0.003	0.06	0.16	0.71	0.07	-0.33	-0.38	0.54	-0.07	6581	-4.0
4	O008	C	-0.644	0.030	0.71	0.53	0.003	0.07	0.14	0.71	0.07	-0.35	-0.35	0.53	-0.09	6542	-4.9
5	O008	C	-0.644	0.031	0.72	0.54	0.004	0.06	0.15	0.72	0.07	-0.31	-0.38	0.54	-0.09	6531	-3.8
6	O008	C	-0.644	0.031	0.72	0.52	0.003	0.06	0.15	0.72	0.07	-0.33	-0.35	0.52	-0.10	6544	-1.8
7	O008	C	-0.644	0.031	0.71	0.52	0.003	0.06	0.16	0.71	0.08	-0.30	-0.38	0.52	-0.09	6544	-2.3
8	O008	C	-0.644	0.030	0.72	0.51	0.003	0.06	0.15	0.72	0.07	-0.32	-0.36	0.51	-0.09	6560	-4.5
9	O008	C	-0.644	0.031	0.72	0.51	0.003	0.06	0.15	0.72	0.07	-0.32	-0.36	0.51	-0.09	6552	-1.5
10	O008	C	-0.644	0.030	0.71	0.52	0.002	0.06	0.15	0.71	0.08	-0.32	-0.37	0.52	-0.09	6554	-4.7
11	O008	C	-0.644	0.031	0.72	0.52	0.003	0.06	0.14	0.72	0.07	-0.32	-0.37	0.52	-0.08	6512	-2.2
12	O008	C	-0.644	0.030	0.71	0.52	0.004	0.06	0.15	0.71	0.08	-0.31	-0.37	0.52	-0.09	6542	-2.3
13	O008	C	-0.644	0.030	0.71	0.53	0.003	0.07	0.15	0.71	0.07	-0.34	-0.36	0.53	-0.08	6541	-4.9
14	O008	C	-0.644	0.031	0.72	0.51	0.004	0.06	0.14	0.72	0.07	-0.31	-0.36	0.51	-0.09	6518	-3.3
15	O008	C	-0.644	0.031	0.71	0.52	0.003	0.06	0.15	0.71	0.08	-0.32	-0.36	0.52	-0.09	6519	-2.5
16	O008	C	-0.644	0.031	0.72	0.52	0.004	0.06	0.15	0.72	0.07	-0.32	-0.36	0.52	-0.08	6511	-2.4
17	O008	C	-0.644	0.031	0.71	0.51	0.004	0.06	0.15	0.71	0.08	-0.32	-0.36	0.51	-0.08	6531	-1.3
18	O008	C	-0.644	0.031	0.71	0.51	0.004	0.06	0.15	0.71	0.08	-0.31	-0.37	0.51	-0.07	6514	1.4
19	O008	C	-0.644	0.031	0.71	0.53	0.002	0.07	0.15	0.71	0.07	-0.34	-0.37	0.53	-0.08	6559	-3.7
20	O008	C	-0.644	0.031	0.72	0.53	0.002	0.06	0.15	0.72	0.07	-0.33	-0.37	0.53	-0.08	6534	-2.6
1	O009	B	0.657	0.028	0.49	0.48	0.015	0.12	0.49	0.19	0.18	-0.13	0.48	-0.21	-0.27	6942	3.0
2	O009	B	0.657	0.028	0.50	0.47	0.014	0.11	0.50	0.19	0.18	-0.15	0.47	-0.20	-0.27	6569	3.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
3	O009	B	0.657	0.028	0.48	0.48	0.014	0.12	0.48	0.20	0.19	-0.17	0.48	-0.19	-0.27	6581	2.6
4	O009	B	0.657	0.028	0.49	0.48	0.015	0.13	0.49	0.19	0.18	-0.16	0.48	-0.19	-0.28	6542	0.9
5	O009	B	0.657	0.029	0.49	0.48	0.012	0.12	0.49	0.19	0.19	-0.15	0.48	-0.19	-0.28	6531	3.4
6	O009	B	0.657	0.028	0.48	0.47	0.013	0.12	0.48	0.19	0.20	-0.13	0.47	-0.20	-0.28	6544	2.8
7	O009	B	0.657	0.028	0.49	0.46	0.013	0.13	0.49	0.20	0.18	-0.16	0.46	-0.18	-0.26	6544	3.8
8	O009	B	0.657	0.028	0.50	0.49	0.013	0.13	0.50	0.19	0.18	-0.17	0.49	-0.18	-0.29	6560	1.1
9	O009	B	0.657	0.028	0.49	0.49	0.013	0.13	0.49	0.19	0.18	-0.14	0.49	-0.22	-0.27	6552	1.6
10	O009	B	0.657	0.028	0.49	0.48	0.012	0.13	0.49	0.20	0.18	-0.14	0.48	-0.22	-0.26	6554	1.6
11	O009	B	0.657	0.028	0.50	0.48	0.013	0.10	0.50	0.20	0.19	-0.16	0.48	-0.19	-0.28	6512	2.1
12	O009	B	0.657	0.028	0.50	0.48	0.015	0.11	0.50	0.19	0.19	-0.16	0.48	-0.19	-0.27	6542	0.7
13	O009	B	0.657	0.028	0.49	0.49	0.016	0.13	0.49	0.19	0.17	-0.17	0.49	-0.21	-0.26	6541	0.0
14	O009	B	0.657	0.028	0.49	0.50	0.011	0.13	0.49	0.19	0.18	-0.16	0.50	-0.21	-0.28	6518	1.1
15	O009	B	0.657	0.028	0.49	0.49	0.013	0.13	0.49	0.18	0.19	-0.16	0.49	-0.18	-0.29	6519	0.6
16	O009	B	0.657	0.028	0.50	0.49	0.011	0.12	0.50	0.20	0.18	-0.15	0.49	-0.21	-0.28	6511	1.0
17	O009	B	0.657	0.029	0.50	0.48	0.015	0.12	0.50	0.18	0.18	-0.15	0.48	-0.20	-0.27	6531	3.5
18	O009	B	0.657	0.029	0.48	0.48	0.014	0.13	0.48	0.19	0.19	-0.15	0.48	-0.19	-0.28	6514	3.9
19	O009	B	0.657	0.029	0.49	0.50	0.013	0.13	0.49	0.19	0.17	-0.17	0.50	-0.22	-0.26	6559	1.6
20	O009	B	0.657	0.028	0.50	0.49	0.010	0.11	0.50	0.20	0.18	-0.17	0.49	-0.19	-0.29	6534	1.7
1	O010	A	-0.583	0.029	0.69	0.45	0.004	0.69	0.12	0.16	0.03	0.45	-0.11	-0.37	-0.20	6942	1.7
2	O010	A	-0.583	0.030	0.71	0.46	0.003	0.71	0.12	0.15	0.03	0.46	-0.13	-0.38	-0.20	6569	-0.3
3	O010	A	-0.583	0.030	0.70	0.46	0.003	0.70	0.12	0.15	0.02	0.46	-0.13	-0.38	-0.19	6581	1.3
4	O010	A	-0.583	0.030	0.71	0.47	0.003	0.71	0.12	0.15	0.02	0.47	-0.14	-0.37	-0.19	6542	-2.4
5	O010	A	-0.583	0.031	0.71	0.45	0.005	0.71	0.12	0.15	0.02	0.45	-0.12	-0.37	-0.17	6531	2.4
6	O010	A	-0.583	0.031	0.70	0.45	0.003	0.70	0.13	0.14	0.03	0.45	-0.12	-0.37	-0.21	6544	1.9
7	O010	A	-0.583	0.030	0.70	0.44	0.004	0.70	0.12	0.15	0.02	0.44	-0.10	-0.38	-0.19	6544	2.2
8	O010	A	-0.583	0.030	0.70	0.47	0.003	0.70	0.13	0.15	0.02	0.47	-0.13	-0.38	-0.20	6560	-1.0
9	O010	A	-0.583	0.031	0.71	0.46	0.003	0.71	0.11	0.15	0.02	0.46	-0.12	-0.38	-0.20	6552	1.3
10	O010	A	-0.583	0.030	0.70	0.47	0.003	0.70	0.12	0.15	0.03	0.47	-0.14	-0.39	-0.20	6554	-1.6
11	O010	A	-0.583	0.031	0.71	0.47	0.004	0.71	0.12	0.15	0.02	0.47	-0.13	-0.39	-0.19	6512	-0.4
12	O010	A	-0.583	0.030	0.70	0.46	0.004	0.70	0.12	0.16	0.02	0.46	-0.10	-0.40	-0.19	6542	-0.4
13	O010	A	-0.583	0.030	0.71	0.45	0.004	0.71	0.13	0.14	0.02	0.45	-0.14	-0.36	-0.19	6541	-1.2
14	O010	A	-0.583	0.031	0.71	0.44	0.004	0.71	0.12	0.14	0.02	0.44	-0.14	-0.36	-0.16	6518	1.0
15	O010	A	-0.583	0.031	0.71	0.43	0.003	0.71	0.12	0.15	0.02	0.43	-0.12	-0.37	-0.18	6519	1.9
16	O010	A	-0.583	0.030	0.69	0.45	0.004	0.69	0.13	0.15	0.03	0.45	-0.11	-0.37	-0.20	6511	2.6
17	O010	A	-0.583	0.030	0.71	0.43	0.005	0.71	0.11	0.15	0.02	0.43	-0.08	-0.39	-0.18	6531	2.9
18	O010	A	-0.583	0.031	0.70	0.46	0.004	0.70	0.13	0.15	0.02	0.46	-0.15	-0.36	-0.20	6514	2.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O010	A	-0.583	0.031	0.71	0.46	0.003	0.71	0.12	0.15	0.03	0.46	-0.13	-0.37	-0.19	6559	0.8
20	O010	A	-0.583	0.031	0.70	0.46	0.002	0.70	0.12	0.15	0.02	0.46	-0.13	-0.38	-0.20	6534	1.6
1	O011	D	-0.465	0.029	0.67	0.47	0.003	0.06	0.20	0.07	0.67	-0.29	-0.20	-0.27	0.47	6942	2.8
2	O011	D	-0.465	0.030	0.69	0.44	0.003	0.05	0.20	0.06	0.69	-0.29	-0.19	-0.24	0.44	6569	4.0
3	O011	D	-0.465	0.030	0.68	0.45	0.003	0.06	0.21	0.06	0.68	-0.29	-0.20	-0.26	0.45	6581	5.9
4	O011	D	-0.465	0.029	0.69	0.44	0.003	0.05	0.20	0.06	0.69	-0.27	-0.21	-0.24	0.44	6542	2.1
5	O011	D	-0.465	0.030	0.69	0.43	0.004	0.05	0.19	0.06	0.69	-0.28	-0.17	-0.25	0.43	6531	7.0
6	O011	D	-0.465	0.030	0.70	0.44	0.002	0.06	0.19	0.06	0.70	-0.30	-0.20	-0.23	0.44	6544	3.2
7	O011	D	-0.465	0.030	0.69	0.45	0.003	0.05	0.19	0.06	0.69	-0.26	-0.21	-0.25	0.45	6544	2.5
8	O011	D	-0.465	0.030	0.69	0.47	0.003	0.05	0.20	0.06	0.69	-0.28	-0.23	-0.25	0.47	6560	2.3
9	O011	D	-0.465	0.030	0.69	0.45	0.003	0.05	0.19	0.06	0.69	-0.27	-0.19	-0.27	0.45	6552	5.0
10	O011	D	-0.465	0.030	0.68	0.45	0.002	0.05	0.21	0.06	0.68	-0.27	-0.21	-0.25	0.45	6554	3.8
11	O011	D	-0.465	0.030	0.69	0.44	0.002	0.05	0.20	0.06	0.69	-0.29	-0.20	-0.25	0.44	6512	4.3
12	O011	D	-0.465	0.030	0.69	0.44	0.004	0.05	0.20	0.06	0.69	-0.26	-0.21	-0.24	0.44	6542	2.7
13	O011	D	-0.465	0.029	0.69	0.44	0.004	0.05	0.20	0.06	0.69	-0.27	-0.21	-0.23	0.44	6541	2.2
14	O011	D	-0.465	0.030	0.69	0.45	0.003	0.04	0.20	0.06	0.69	-0.26	-0.23	-0.24	0.45	6518	4.5
15	O011	D	-0.465	0.030	0.69	0.44	0.003	0.05	0.20	0.06	0.69	-0.27	-0.20	-0.25	0.44	6519	6.3
16	O011	D	-0.465	0.030	0.69	0.45	0.003	0.05	0.20	0.06	0.69	-0.29	-0.22	-0.22	0.45	6511	3.7
17	O011	D	-0.465	0.030	0.69	0.46	0.003	0.05	0.20	0.06	0.69	-0.27	-0.22	-0.24	0.46	6531	4.0
18	O011	D	-0.465	0.030	0.68	0.44	0.003	0.05	0.20	0.06	0.68	-0.27	-0.19	-0.25	0.44	6514	9.1
19	O011	D	-0.465	0.030	0.69	0.45	0.002	0.05	0.20	0.06	0.69	-0.27	-0.21	-0.26	0.45	6559	5.5
20	O011	D	-0.465	0.030	0.69	0.44	0.001	0.05	0.21	0.05	0.69	-0.28	-0.22	-0.25	0.44	6534	6.7
1	O012	B	1.060	0.028	0.41	0.51	0.005	0.18	0.41	0.09	0.31	-0.15	0.51	-0.12	-0.33	6942	2.2
2	O012	B	1.060	0.029	0.42	0.49	0.004	0.18	0.42	0.09	0.30	-0.14	0.49	-0.14	-0.31	6569	2.5
3	O012	B	1.060	0.029	0.41	0.50	0.006	0.18	0.41	0.10	0.31	-0.13	0.50	-0.14	-0.33	6581	2.6
4	O012	B	1.060	0.029	0.41	0.49	0.006	0.18	0.41	0.09	0.31	-0.14	0.49	-0.15	-0.31	6542	1.7
5	O012	B	1.060	0.029	0.43	0.48	0.006	0.18	0.43	0.09	0.30	-0.12	0.48	-0.13	-0.32	6531	5.6
6	O012	B	1.060	0.029	0.42	0.49	0.004	0.18	0.42	0.09	0.31	-0.13	0.49	-0.12	-0.33	6544	2.6
7	O012	B	1.060	0.029	0.41	0.51	0.005	0.18	0.41	0.10	0.30	-0.13	0.51	-0.13	-0.34	6544	0.9
8	O012	B	1.060	0.029	0.41	0.50	0.005	0.18	0.41	0.10	0.31	-0.11	0.50	-0.15	-0.34	6560	1.3
9	O012	B	1.060	0.029	0.42	0.51	0.005	0.18	0.42	0.10	0.30	-0.15	0.51	-0.14	-0.32	6552	0.0
10	O012	B	1.060	0.029	0.42	0.49	0.004	0.18	0.42	0.09	0.30	-0.12	0.49	-0.15	-0.32	6554	4.2
11	O012	B	1.060	0.029	0.42	0.50	0.004	0.18	0.42	0.09	0.30	-0.13	0.50	-0.15	-0.33	6512	1.3
12	O012	B	1.060	0.029	0.42	0.49	0.005	0.19	0.42	0.09	0.30	-0.13	0.49	-0.14	-0.32	6542	1.7
13	O012	B	1.060	0.029	0.41	0.50	0.006	0.19	0.41	0.09	0.31	-0.12	0.50	-0.14	-0.33	6541	0.8
14	O012	B	1.060	0.029	0.42	0.51	0.006	0.18	0.42	0.09	0.30	-0.15	0.51	-0.13	-0.33	6518	0.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
15	O012	B	1.060	0.029	0.42	0.50	0.007	0.18	0.42	0.09	0.31	-0.11	0.50	-0.14	-0.35	6519	1.7
16	O012	B	1.060	0.029	0.41	0.50	0.005	0.18	0.41	0.09	0.32	-0.12	0.50	-0.14	-0.33	6511	0.8
17	O012	B	1.060	0.029	0.41	0.50	0.006	0.19	0.41	0.09	0.31	-0.13	0.50	-0.14	-0.32	6531	1.7
18	O012	B	1.060	0.029	0.40	0.47	0.005	0.19	0.40	0.09	0.31	-0.12	0.47	-0.13	-0.30	6514	4.7
19	O012	B	1.060	0.029	0.42	0.52	0.005	0.18	0.42	0.09	0.31	-0.14	0.52	-0.13	-0.35	6559	0.3
20	O012	B	1.060	0.029	0.41	0.49	0.003	0.18	0.41	0.09	0.32	-0.12	0.49	-0.13	-0.34	6534	1.5
1	O013	C	0.048	0.028	0.60	0.32	0.008	0.11	0.21	0.60	0.08	-0.07	-0.19	0.32	-0.19	6942	9.9
2	O013	C	0.048	0.029	0.60	0.29	0.008	0.11	0.21	0.60	0.07	-0.04	-0.19	0.29	-0.18	6569	9.9
3	O013	C	0.048	0.029	0.60	0.29	0.009	0.11	0.21	0.60	0.07	-0.04	-0.19	0.29	-0.18	6581	9.9
4	O013	C	0.048	0.028	0.61	0.30	0.009	0.11	0.21	0.61	0.07	-0.06	-0.19	0.30	-0.18	6542	9.9
5	O013	C	0.048	0.029	0.60	0.28	0.009	0.11	0.21	0.60	0.07	-0.06	-0.16	0.28	-0.17	6531	9.9
6	O013	C	0.048	0.029	0.60	0.29	0.009	0.12	0.21	0.60	0.07	-0.05	-0.20	0.29	-0.17	6544	9.9
7	O013	C	0.048	0.029	0.60	0.28	0.009	0.11	0.21	0.60	0.07	-0.06	-0.19	0.28	-0.15	6544	9.9
8	O013	C	0.048	0.028	0.60	0.31	0.011	0.10	0.22	0.60	0.07	-0.06	-0.19	0.31	-0.19	6560	9.9
9	O013	C	0.048	0.029	0.61	0.31	0.008	0.11	0.21	0.61	0.07	-0.07	-0.19	0.31	-0.18	6552	9.9
10	O013	C	0.048	0.028	0.59	0.30	0.010	0.11	0.22	0.59	0.07	-0.07	-0.19	0.30	-0.19	6554	9.9
11	O013	C	0.048	0.029	0.61	0.30	0.008	0.10	0.21	0.61	0.07	-0.06	-0.20	0.30	-0.16	6512	9.9
12	O013	C	0.048	0.028	0.60	0.31	0.010	0.11	0.22	0.60	0.07	-0.06	-0.20	0.31	-0.18	6542	9.9
13	O013	C	0.048	0.028	0.61	0.29	0.010	0.11	0.21	0.61	0.07	-0.07	-0.16	0.29	-0.19	6541	9.9
14	O013	C	0.048	0.029	0.61	0.31	0.009	0.11	0.21	0.61	0.06	-0.06	-0.20	0.31	-0.18	6518	9.9
15	O013	C	0.048	0.029	0.60	0.29	0.008	0.11	0.21	0.60	0.07	-0.08	-0.18	0.29	-0.17	6519	9.9
16	O013	C	0.048	0.029	0.61	0.31	0.009	0.10	0.21	0.61	0.07	-0.07	-0.21	0.31	-0.16	6511	9.9
17	O013	C	0.048	0.029	0.61	0.28	0.011	0.10	0.22	0.61	0.06	-0.07	-0.19	0.28	-0.13	6531	9.9
18	O013	C	0.048	0.029	0.60	0.29	0.011	0.10	0.21	0.60	0.07	-0.04	-0.18	0.29	-0.19	6514	9.9
19	O013	C	0.048	0.029	0.61	0.28	0.009	0.10	0.21	0.61	0.07	-0.06	-0.19	0.28	-0.16	6559	9.9
20	O013	C	0.048	0.029	0.60	0.30	0.008	0.11	0.21	0.60	0.07	-0.07	-0.20	0.30	-0.16	6534	9.9
1	O014	C	0.486	0.027	0.51	0.46	0.005	0.15	0.16	0.51	0.19	-0.19	-0.33	0.46	-0.10	6942	3.5
2	O014	C	0.486	0.028	0.53	0.43	0.005	0.13	0.14	0.53	0.20	-0.15	-0.33	0.43	-0.11	6569	6.4
3	O014	C	0.486	0.028	0.51	0.47	0.005	0.14	0.14	0.51	0.20	-0.18	-0.34	0.47	-0.12	6581	2.9
4	O014	C	0.486	0.028	0.51	0.48	0.004	0.15	0.15	0.51	0.19	-0.19	-0.35	0.48	-0.10	6542	0.4
5	O014	C	0.486	0.029	0.51	0.47	0.005	0.15	0.14	0.51	0.20	-0.18	-0.32	0.47	-0.13	6531	3.7
6	O014	C	0.486	0.028	0.52	0.44	0.004	0.14	0.14	0.52	0.19	-0.17	-0.32	0.44	-0.11	6544	4.5
7	O014	C	0.486	0.028	0.52	0.45	0.006	0.15	0.14	0.52	0.19	-0.19	-0.34	0.45	-0.09	6544	5.1
8	O014	C	0.486	0.028	0.52	0.45	0.004	0.14	0.14	0.52	0.20	-0.19	-0.33	0.45	-0.10	6560	3.3
9	O014	C	0.486	0.028	0.52	0.46	0.004	0.14	0.14	0.52	0.19	-0.19	-0.32	0.46	-0.11	6552	3.3
10	O014	C	0.486	0.028	0.52	0.45	0.005	0.14	0.14	0.52	0.20	-0.20	-0.31	0.45	-0.11	6554	4.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O014	C	0.486	0.028	0.53	0.46	0.004	0.14	0.14	0.53	0.19	-0.20	-0.33	0.46	-0.10	6512	3.5
12	O014	C	0.486	0.028	0.51	0.46	0.005	0.14	0.15	0.51	0.19	-0.19	-0.32	0.46	-0.11	6542	0.9
13	O014	C	0.486	0.028	0.53	0.47	0.005	0.14	0.14	0.53	0.19	-0.20	-0.33	0.47	-0.11	6541	2.0
14	O014	C	0.486	0.028	0.51	0.46	0.005	0.15	0.14	0.51	0.20	-0.20	-0.33	0.46	-0.10	6518	4.3
15	O014	C	0.486	0.028	0.52	0.46	0.005	0.14	0.14	0.52	0.20	-0.20	-0.32	0.46	-0.11	6519	3.7
16	O014	C	0.486	0.028	0.52	0.46	0.005	0.14	0.14	0.52	0.20	-0.17	-0.32	0.46	-0.13	6511	5.3
17	O014	C	0.486	0.029	0.53	0.45	0.005	0.14	0.14	0.53	0.19	-0.19	-0.32	0.45	-0.10	6531	5.3
18	O014	C	0.486	0.029	0.52	0.47	0.005	0.14	0.14	0.52	0.19	-0.19	-0.31	0.47	-0.13	6514	4.4
19	O014	C	0.486	0.029	0.51	0.48	0.004	0.14	0.15	0.51	0.19	-0.19	-0.34	0.48	-0.12	6559	3.0
20	O014	C	0.486	0.028	0.52	0.47	0.002	0.14	0.15	0.52	0.19	-0.21	-0.32	0.47	-0.12	6534	3.0
1	O015	D	-1.312	0.033	0.80	0.50	0.004	0.06	0.08	0.06	0.80	-0.24	-0.29	-0.25	0.50	6942	-7.8
2	O015	D	-1.312	0.034	0.82	0.48	0.004	0.05	0.07	0.06	0.82	-0.23	-0.26	-0.26	0.48	6569	-8.0
3	O015	D	-1.312	0.034	0.81	0.51	0.005	0.05	0.08	0.06	0.81	-0.25	-0.30	-0.26	0.51	6581	-7.1
4	O015	D	-1.312	0.034	0.81	0.50	0.005	0.05	0.08	0.06	0.81	-0.22	-0.30	-0.26	0.50	6542	-8.3
5	O015	D	-1.312	0.035	0.81	0.48	0.006	0.05	0.08	0.06	0.81	-0.22	-0.27	-0.25	0.48	6531	-4.7
6	O015	D	-1.312	0.035	0.82	0.51	0.005	0.06	0.07	0.05	0.82	-0.24	-0.29	-0.27	0.51	6544	-7.8
7	O015	D	-1.312	0.035	0.80	0.50	0.004	0.06	0.08	0.06	0.80	-0.23	-0.28	-0.27	0.50	6544	-6.6
8	O015	D	-1.312	0.034	0.82	0.49	0.005	0.05	0.07	0.05	0.82	-0.23	-0.27	-0.26	0.49	6560	-7.6
9	O015	D	-1.312	0.035	0.81	0.51	0.003	0.06	0.08	0.06	0.81	-0.25	-0.29	-0.25	0.51	6552	-5.8
10	O015	D	-1.312	0.034	0.81	0.52	0.004	0.06	0.08	0.06	0.81	-0.27	-0.29	-0.26	0.52	6554	-8.8
11	O015	D	-1.312	0.035	0.82	0.50	0.004	0.05	0.07	0.06	0.82	-0.25	-0.28	-0.26	0.50	6512	-6.9
12	O015	D	-1.312	0.034	0.81	0.49	0.005	0.05	0.08	0.06	0.81	-0.22	-0.28	-0.25	0.49	6542	-6.5
13	O015	D	-1.312	0.034	0.82	0.48	0.006	0.05	0.07	0.05	0.82	-0.22	-0.27	-0.26	0.48	6541	-7.8
14	O015	D	-1.312	0.035	0.82	0.48	0.005	0.05	0.07	0.05	0.82	-0.22	-0.28	-0.25	0.48	6518	-6.0
15	O015	D	-1.312	0.035	0.81	0.50	0.004	0.05	0.07	0.06	0.81	-0.24	-0.29	-0.27	0.50	6519	-6.5
16	O015	D	-1.312	0.035	0.81	0.50	0.004	0.05	0.08	0.06	0.81	-0.23	-0.30	-0.26	0.50	6511	-6.9
17	O015	D	-1.312	0.035	0.81	0.50	0.005	0.05	0.08	0.06	0.81	-0.22	-0.30	-0.26	0.50	6531	-6.2
18	O015	D	-1.312	0.035	0.81	0.50	0.004	0.05	0.08	0.05	0.81	-0.24	-0.29	-0.25	0.50	6514	-5.4
19	O015	D	-1.312	0.035	0.82	0.48	0.003	0.05	0.07	0.06	0.82	-0.24	-0.28	-0.25	0.48	6559	-6.7
20	O015	D	-1.312	0.035	0.82	0.49	0.003	0.05	0.07	0.05	0.82	-0.24	-0.29	-0.25	0.49	6534	-6.2
1	O016	B	-0.397	0.029	0.66	0.52	0.003	0.10	0.66	0.03	0.21	-0.37	0.52	-0.19	-0.24	6942	-4.3
2	O016	B	-0.397	0.030	0.67	0.51	0.003	0.09	0.67	0.03	0.21	-0.37	0.51	-0.19	-0.25	6569	-4.0
3	O016	B	-0.397	0.030	0.67	0.50	0.003	0.09	0.67	0.03	0.21	-0.34	0.50	-0.17	-0.26	6581	-3.6
4	O016	B	-0.397	0.029	0.68	0.50	0.003	0.08	0.68	0.03	0.20	-0.36	0.50	-0.20	-0.24	6542	-6.0
5	O016	B	-0.397	0.030	0.68	0.51	0.005	0.08	0.68	0.03	0.21	-0.35	0.51	-0.18	-0.26	6531	-3.8
6	O016	B	-0.397	0.030	0.68	0.51	0.003	0.08	0.68	0.03	0.21	-0.37	0.51	-0.19	-0.25	6544	-3.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O016	B	-0.397	0.030	0.68	0.50	0.004	0.08	0.68	0.03	0.21	-0.33	0.50	-0.19	-0.26	6544	-4.4
8	O016	B	-0.397	0.029	0.68	0.51	0.003	0.08	0.68	0.03	0.21	-0.34	0.51	-0.20	-0.26	6560	-5.2
9	O016	B	-0.397	0.030	0.67	0.51	0.002	0.09	0.67	0.03	0.22	-0.35	0.51	-0.19	-0.26	6552	-2.5
10	O016	B	-0.397	0.029	0.67	0.51	0.002	0.08	0.67	0.03	0.22	-0.34	0.51	-0.21	-0.26	6554	-4.5
11	O016	B	-0.397	0.030	0.68	0.52	0.003	0.09	0.68	0.03	0.21	-0.37	0.52	-0.18	-0.25	6512	-4.7
12	O016	B	-0.397	0.029	0.67	0.50	0.004	0.09	0.67	0.03	0.21	-0.36	0.50	-0.19	-0.24	6542	-6.1
13	O016	B	-0.397	0.029	0.68	0.50	0.004	0.09	0.68	0.03	0.20	-0.37	0.50	-0.18	-0.23	6541	-6.5
14	O016	B	-0.397	0.030	0.68	0.49	0.003	0.08	0.68	0.03	0.21	-0.34	0.49	-0.21	-0.24	6518	-2.8
15	O016	B	-0.397	0.030	0.67	0.52	0.003	0.09	0.67	0.03	0.21	-0.35	0.52	-0.19	-0.26	6519	-4.3
16	O016	B	-0.397	0.030	0.67	0.49	0.004	0.08	0.67	0.03	0.21	-0.34	0.49	-0.19	-0.24	6511	-2.6
17	O016	B	-0.397	0.030	0.68	0.52	0.004	0.08	0.68	0.03	0.21	-0.37	0.52	-0.19	-0.26	6531	-5.2
18	O016	B	-0.397	0.030	0.67	0.52	0.004	0.09	0.67	0.03	0.21	-0.37	0.52	-0.18	-0.26	6514	-3.9
19	O016	B	-0.397	0.030	0.68	0.51	0.003	0.08	0.68	0.03	0.21	-0.33	0.51	-0.19	-0.27	6559	-3.6
20	O016	B	-0.397	0.030	0.67	0.50	0.002	0.09	0.67	0.03	0.21	-0.36	0.50	-0.20	-0.23	6534	-2.3
1	O017	C	0.634	0.028	0.49	0.46	0.005	0.16	0.25	0.49	0.10	-0.34	-0.23	0.46	-0.01	6942	5.4
2	O017	C	0.634	0.028	0.49	0.49	0.007	0.17	0.24	0.49	0.10	-0.35	-0.24	0.49	-0.02	6569	2.1
3	O017	C	0.634	0.028	0.49	0.48	0.005	0.17	0.25	0.49	0.10	-0.35	-0.22	0.48	-0.02	6581	4.3
4	O017	C	0.634	0.028	0.50	0.45	0.005	0.15	0.24	0.50	0.10	-0.34	-0.21	0.45	-0.02	6542	4.2
5	O017	C	0.634	0.029	0.50	0.47	0.006	0.16	0.24	0.50	0.10	-0.34	-0.22	0.47	-0.02	6531	5.3
6	O017	C	0.634	0.028	0.50	0.50	0.005	0.16	0.25	0.50	0.09	-0.35	-0.25	0.50	-0.02	6544	1.5
7	O017	C	0.634	0.028	0.49	0.46	0.006	0.15	0.24	0.49	0.11	-0.32	-0.25	0.46	0.00	6544	4.6
8	O017	C	0.634	0.028	0.49	0.47	0.006	0.16	0.24	0.49	0.11	-0.34	-0.23	0.47	-0.03	6560	4.5
9	O017	C	0.634	0.028	0.49	0.50	0.005	0.16	0.24	0.49	0.11	-0.36	-0.23	0.50	-0.05	6552	1.0
10	O017	C	0.634	0.028	0.49	0.47	0.005	0.16	0.25	0.49	0.11	-0.35	-0.22	0.47	-0.02	6554	3.4
11	O017	C	0.634	0.028	0.51	0.48	0.005	0.16	0.23	0.51	0.10	-0.36	-0.24	0.48	-0.01	6512	2.1
12	O017	C	0.634	0.028	0.49	0.48	0.007	0.17	0.24	0.49	0.10	-0.36	-0.22	0.48	-0.01	6542	1.4
13	O017	C	0.634	0.028	0.50	0.47	0.008	0.16	0.24	0.50	0.10	-0.33	-0.22	0.47	-0.04	6541	3.6
14	O017	C	0.634	0.028	0.49	0.47	0.006	0.16	0.25	0.49	0.10	-0.34	-0.23	0.47	-0.02	6518	3.7
15	O017	C	0.634	0.028	0.50	0.49	0.006	0.16	0.24	0.50	0.10	-0.35	-0.23	0.49	-0.04	6519	1.6
16	O017	C	0.634	0.028	0.49	0.47	0.006	0.16	0.24	0.49	0.10	-0.35	-0.22	0.47	-0.01	6511	3.7
17	O017	C	0.634	0.029	0.48	0.48	0.007	0.17	0.24	0.48	0.10	-0.37	-0.22	0.48	-0.00	6531	4.5
18	O017	C	0.634	0.029	0.49	0.48	0.004	0.16	0.24	0.49	0.11	-0.34	-0.24	0.48	-0.02	6514	3.9
19	O017	C	0.634	0.029	0.49	0.48	0.005	0.16	0.24	0.49	0.10	-0.35	-0.24	0.48	-0.01	6559	3.3
20	O017	C	0.634	0.028	0.50	0.48	0.003	0.16	0.24	0.50	0.10	-0.34	-0.24	0.48	-0.03	6534	2.5
1	O018	D	1.491	0.029	0.34	0.32	0.004	0.39	0.06	0.21	0.34	0.04	-0.21	-0.29	0.32	6942	9.9
2	O018	D	1.491	0.030	0.35	0.33	0.005	0.39	0.06	0.20	0.35	0.03	-0.21	-0.29	0.33	6569	9.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O018	D	1.491	0.030	0.34	0.33	0.004	0.38	0.07	0.22	0.34	0.05	-0.23	-0.29	0.33	6581	9.9
4	O018	D	1.491	0.030	0.34	0.33	0.004	0.39	0.06	0.22	0.34	0.03	-0.21	-0.28	0.33	6542	9.9
5	O018	D	1.491	0.030	0.34	0.32	0.006	0.38	0.06	0.21	0.34	0.03	-0.20	-0.27	0.32	6531	9.9
6	O018	D	1.491	0.030	0.35	0.32	0.004	0.38	0.06	0.21	0.35	0.02	-0.21	-0.26	0.32	6544	9.9
7	O018	D	1.491	0.030	0.35	0.33	0.006	0.38	0.06	0.21	0.35	0.03	-0.23	-0.27	0.33	6544	9.9
8	O018	D	1.491	0.030	0.35	0.32	0.005	0.38	0.05	0.21	0.35	0.03	-0.22	-0.27	0.32	6560	9.9
9	O018	D	1.491	0.030	0.34	0.36	0.004	0.39	0.06	0.21	0.34	0.01	-0.24	-0.27	0.36	6552	9.9
10	O018	D	1.491	0.030	0.34	0.32	0.005	0.38	0.06	0.22	0.34	0.06	-0.23	-0.28	0.32	6554	9.9
11	O018	D	1.491	0.030	0.35	0.34	0.005	0.39	0.06	0.20	0.35	0.02	-0.22	-0.27	0.34	6512	9.9
12	O018	D	1.491	0.030	0.35	0.37	0.006	0.38	0.06	0.21	0.35	-0.00	-0.21	-0.30	0.37	6542	9.9
13	O018	D	1.491	0.030	0.35	0.33	0.006	0.38	0.06	0.21	0.35	0.03	-0.22	-0.28	0.33	6541	9.9
14	O018	D	1.491	0.030	0.35	0.33	0.004	0.39	0.05	0.21	0.35	0.04	-0.21	-0.30	0.33	6518	9.9
15	O018	D	1.491	0.030	0.35	0.33	0.005	0.38	0.06	0.20	0.35	0.02	-0.22	-0.28	0.33	6519	9.9
16	O018	D	1.491	0.030	0.34	0.32	0.006	0.39	0.06	0.22	0.34	0.03	-0.21	-0.27	0.32	6511	9.9
17	O018	D	1.491	0.030	0.35	0.34	0.006	0.38	0.06	0.21	0.35	0.03	-0.21	-0.29	0.34	6531	9.9
18	O018	D	1.491	0.030	0.34	0.33	0.005	0.39	0.06	0.21	0.34	0.03	-0.23	-0.28	0.33	6514	9.9
19	O018	D	1.491	0.030	0.35	0.34	0.004	0.39	0.06	0.21	0.35	0.03	-0.22	-0.29	0.34	6559	9.9
20	O018	D	1.491	0.030	0.35	0.32	0.003	0.38	0.06	0.21	0.35	0.03	-0.21	-0.29	0.32	6534	9.9
1	O019	D	-0.872	0.030	0.74	0.45	0.003	0.01	0.03	0.22	0.74	-0.14	-0.21	-0.34	0.45	6942	3.4
2	O019	D	-0.872	0.032	0.75	0.44	0.003	0.01	0.02	0.21	0.75	-0.15	-0.21	-0.33	0.44	6569	4.4
3	O019	D	-0.872	0.032	0.75	0.45	0.004	0.01	0.02	0.21	0.75	-0.14	-0.22	-0.35	0.45	6581	2.9
4	O019	D	-0.872	0.031	0.74	0.45	0.003	0.01	0.02	0.22	0.74	-0.16	-0.21	-0.34	0.45	6542	2.5
5	O019	D	-0.872	0.032	0.75	0.42	0.004	0.01	0.02	0.21	0.75	-0.14	-0.19	-0.32	0.42	6531	7.3
6	O019	D	-0.872	0.032	0.75	0.44	0.004	0.01	0.02	0.22	0.75	-0.15	-0.22	-0.33	0.44	6544	8.0
7	O019	D	-0.872	0.032	0.75	0.44	0.004	0.01	0.02	0.21	0.75	-0.16	-0.21	-0.33	0.44	6544	6.2
8	O019	D	-0.872	0.032	0.74	0.46	0.004	0.02	0.02	0.22	0.74	-0.16	-0.21	-0.34	0.46	6560	2.5
9	O019	D	-0.872	0.032	0.76	0.44	0.003	0.01	0.02	0.21	0.76	-0.15	-0.20	-0.34	0.44	6552	4.9
10	O019	D	-0.872	0.031	0.75	0.44	0.003	0.01	0.02	0.21	0.75	-0.16	-0.22	-0.33	0.44	6554	4.4
11	O019	D	-0.872	0.032	0.75	0.44	0.003	0.01	0.02	0.21	0.75	-0.14	-0.20	-0.34	0.44	6512	5.6
12	O019	D	-0.872	0.031	0.75	0.45	0.003	0.01	0.02	0.21	0.75	-0.14	-0.22	-0.34	0.45	6542	2.7
13	O019	D	-0.872	0.031	0.74	0.45	0.004	0.01	0.02	0.23	0.74	-0.15	-0.20	-0.35	0.45	6541	2.5
14	O019	D	-0.872	0.032	0.75	0.42	0.004	0.01	0.02	0.21	0.75	-0.14	-0.21	-0.31	0.42	6518	7.6
15	O019	D	-0.872	0.032	0.75	0.44	0.003	0.01	0.02	0.22	0.75	-0.14	-0.21	-0.34	0.44	6519	6.3
16	O019	D	-0.872	0.032	0.75	0.44	0.003	0.01	0.03	0.21	0.75	-0.14	-0.22	-0.34	0.44	6511	4.3
17	O019	D	-0.872	0.032	0.74	0.45	0.004	0.01	0.02	0.22	0.74	-0.14	-0.22	-0.34	0.45	6531	6.7
18	O019	D	-0.872	0.032	0.75	0.46	0.003	0.01	0.02	0.22	0.75	-0.16	-0.21	-0.35	0.46	6514	6.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O019	D	-0.872	0.032	0.74	0.44	0.002	0.01	0.02	0.22	0.74	-0.13	-0.21	-0.34	0.44	6559	5.8
20	O019	D	-0.872	0.032	0.75	0.44	0.002	0.01	0.02	0.22	0.75	-0.13	-0.21	-0.35	0.44	6534	7.7
1	O020	C	-1.072	0.031	0.76	0.51	0.004	0.03	0.06	0.76	0.15	-0.20	-0.24	0.51	-0.33	6942	-5.1
2	O020	C	-1.072	0.033	0.78	0.48	0.004	0.03	0.05	0.78	0.14	-0.18	-0.22	0.48	-0.33	6569	-4.6
3	O020	C	-1.072	0.033	0.77	0.48	0.005	0.03	0.06	0.77	0.13	-0.18	-0.23	0.48	-0.31	6581	-3.5
4	O020	C	-1.072	0.032	0.77	0.47	0.004	0.03	0.05	0.77	0.14	-0.18	-0.20	0.47	-0.32	6542	-5.3
5	O020	C	-1.072	0.033	0.77	0.48	0.006	0.03	0.06	0.77	0.13	-0.19	-0.22	0.48	-0.32	6531	-3.3
6	O020	C	-1.072	0.033	0.77	0.48	0.004	0.03	0.06	0.77	0.13	-0.19	-0.24	0.48	-0.32	6544	-3.1
7	O020	C	-1.072	0.033	0.78	0.47	0.005	0.03	0.06	0.78	0.13	-0.18	-0.22	0.47	-0.32	6544	-4.2
8	O020	C	-1.072	0.033	0.78	0.48	0.005	0.03	0.05	0.78	0.13	-0.19	-0.22	0.48	-0.33	6560	-6.3
9	O020	C	-1.072	0.033	0.78	0.46	0.004	0.03	0.05	0.78	0.14	-0.20	-0.20	0.46	-0.31	6552	-3.2
10	O020	C	-1.072	0.032	0.77	0.47	0.004	0.03	0.06	0.77	0.14	-0.18	-0.24	0.47	-0.31	6554	-4.6
11	O020	C	-1.072	0.033	0.78	0.48	0.004	0.03	0.05	0.78	0.13	-0.19	-0.22	0.48	-0.33	6512	-4.6
12	O020	C	-1.072	0.033	0.77	0.49	0.006	0.03	0.06	0.77	0.14	-0.17	-0.23	0.49	-0.34	6542	-5.7
13	O020	C	-1.072	0.032	0.78	0.47	0.006	0.03	0.05	0.78	0.14	-0.18	-0.22	0.47	-0.32	6541	-5.6
14	O020	C	-1.072	0.033	0.77	0.48	0.005	0.03	0.06	0.77	0.14	-0.19	-0.21	0.48	-0.33	6518	-3.1
15	O020	C	-1.072	0.033	0.77	0.47	0.005	0.03	0.05	0.77	0.14	-0.17	-0.22	0.47	-0.33	6519	-2.6
16	O020	C	-1.072	0.033	0.76	0.48	0.005	0.03	0.06	0.76	0.14	-0.21	-0.20	0.48	-0.33	6511	-2.7
17	O020	C	-1.072	0.033	0.77	0.50	0.005	0.03	0.06	0.77	0.14	-0.18	-0.25	0.50	-0.33	6531	-4.0
18	O020	C	-1.072	0.033	0.78	0.47	0.004	0.03	0.05	0.78	0.14	-0.17	-0.23	0.47	-0.32	6514	-3.0
19	O020	C	-1.072	0.033	0.78	0.49	0.003	0.03	0.05	0.78	0.14	-0.20	-0.21	0.49	-0.34	6559	-4.7
20	O020	C	-1.072	0.033	0.77	0.48	0.003	0.03	0.06	0.77	0.14	-0.18	-0.24	0.48	-0.33	6534	-2.6
1	O021	D	-0.125	0.028	0.62	0.57	0.006	0.12	0.17	0.08	0.62	-0.26	-0.38	-0.15	0.57	6942	-8.0
2	O021	D	-0.125	0.029	0.63	0.57	0.004	0.12	0.17	0.08	0.63	-0.25	-0.40	-0.15	0.57	6569	-7.4
3	O021	D	-0.125	0.029	0.62	0.56	0.006	0.13	0.16	0.08	0.62	-0.27	-0.36	-0.16	0.56	6581	-5.3
4	O021	D	-0.125	0.029	0.63	0.57	0.005	0.12	0.17	0.08	0.63	-0.23	-0.40	-0.17	0.57	6542	-9.8
5	O021	D	-0.125	0.029	0.63	0.57	0.006	0.12	0.16	0.08	0.63	-0.24	-0.39	-0.16	0.57	6531	-5.8
6	O021	D	-0.125	0.029	0.62	0.57	0.004	0.13	0.17	0.08	0.62	-0.25	-0.39	-0.16	0.57	6544	-6.0
7	O021	D	-0.125	0.029	0.62	0.56	0.006	0.13	0.17	0.08	0.62	-0.24	-0.39	-0.15	0.56	6544	-5.4
8	O021	D	-0.125	0.029	0.62	0.58	0.005	0.12	0.17	0.08	0.62	-0.25	-0.39	-0.16	0.58	6560	-7.8
9	O021	D	-0.125	0.029	0.62	0.58	0.005	0.12	0.17	0.09	0.62	-0.24	-0.40	-0.16	0.58	6552	-4.8
10	O021	D	-0.125	0.029	0.61	0.57	0.004	0.13	0.17	0.09	0.61	-0.25	-0.38	-0.16	0.57	6554	-6.2
11	O021	D	-0.125	0.029	0.63	0.57	0.003	0.12	0.16	0.08	0.63	-0.24	-0.39	-0.17	0.57	6512	-6.9
12	O021	D	-0.125	0.029	0.62	0.58	0.005	0.13	0.17	0.08	0.62	-0.25	-0.39	-0.15	0.58	6542	-8.2
13	O021	D	-0.125	0.028	0.62	0.58	0.006	0.12	0.17	0.09	0.62	-0.25	-0.39	-0.17	0.58	6541	-9.9
14	O021	D	-0.125	0.029	0.62	0.58	0.006	0.13	0.16	0.08	0.62	-0.26	-0.39	-0.15	0.58	6518	-5.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O021	D	-0.125	0.029	0.63	0.56	0.006	0.12	0.16	0.08	0.63	-0.26	-0.36	-0.16	0.56	6519	-6.1
16	O021	D	-0.125	0.029	0.63	0.56	0.004	0.13	0.16	0.08	0.63	-0.25	-0.38	-0.15	0.56	6511	-5.6
17	O021	D	-0.125	0.029	0.61	0.57	0.007	0.13	0.16	0.09	0.61	-0.26	-0.39	-0.14	0.57	6531	-4.7
18	O021	D	-0.125	0.029	0.62	0.58	0.005	0.13	0.16	0.08	0.62	-0.25	-0.40	-0.16	0.58	6514	-4.6
19	O021	D	-0.125	0.029	0.62	0.56	0.004	0.12	0.17	0.08	0.62	-0.24	-0.39	-0.15	0.56	6559	-5.1
20	O021	D	-0.125	0.029	0.63	0.57	0.003	0.12	0.17	0.08	0.63	-0.24	-0.40	-0.15	0.57	6534	-4.8
1	O022	B	-1.421	0.034	0.81	0.38	0.007	0.10	0.81	0.06	0.02	-0.19	0.38	-0.24	-0.17	6942	2.3
2	O022	B	-1.421	0.035	0.83	0.38	0.005	0.09	0.83	0.06	0.02	-0.19	0.38	-0.26	-0.15	6569	2.6
3	O022	B	-1.421	0.035	0.82	0.37	0.007	0.10	0.82	0.06	0.02	-0.20	0.37	-0.23	-0.17	6581	2.7
4	O022	B	-1.421	0.035	0.82	0.38	0.006	0.10	0.82	0.05	0.02	-0.20	0.38	-0.23	-0.18	6542	1.8
5	O022	B	-1.421	0.036	0.83	0.36	0.007	0.09	0.83	0.05	0.02	-0.17	0.36	-0.23	-0.17	6531	3.8
6	O022	B	-1.421	0.036	0.82	0.39	0.005	0.10	0.82	0.06	0.03	-0.19	0.39	-0.25	-0.19	6544	3.9
7	O022	B	-1.421	0.035	0.82	0.38	0.006	0.10	0.82	0.06	0.02	-0.20	0.38	-0.24	-0.16	6544	2.9
8	O022	B	-1.421	0.035	0.82	0.39	0.005	0.10	0.82	0.06	0.02	-0.22	0.39	-0.24	-0.18	6560	0.6
9	O022	B	-1.421	0.036	0.83	0.37	0.005	0.09	0.83	0.05	0.02	-0.20	0.37	-0.23	-0.18	6552	2.4
10	O022	B	-1.421	0.035	0.83	0.37	0.004	0.09	0.83	0.05	0.02	-0.20	0.37	-0.22	-0.19	6554	0.4
11	O022	B	-1.421	0.036	0.83	0.37	0.004	0.10	0.83	0.05	0.02	-0.22	0.37	-0.22	-0.16	6512	0.7
12	O022	B	-1.421	0.035	0.83	0.37	0.005	0.10	0.83	0.05	0.02	-0.21	0.37	-0.21	-0.16	6542	0.4
13	O022	B	-1.421	0.035	0.82	0.37	0.008	0.10	0.82	0.05	0.02	-0.19	0.37	-0.24	-0.16	6541	0.9
14	O022	B	-1.421	0.036	0.83	0.37	0.007	0.09	0.83	0.05	0.02	-0.20	0.37	-0.23	-0.16	6518	1.3
15	O022	B	-1.421	0.036	0.83	0.36	0.006	0.09	0.83	0.05	0.02	-0.18	0.36	-0.22	-0.19	6519	3.3
16	O022	B	-1.421	0.036	0.82	0.37	0.006	0.10	0.82	0.06	0.02	-0.19	0.37	-0.24	-0.16	6511	3.2
17	O022	B	-1.421	0.035	0.82	0.38	0.007	0.10	0.82	0.05	0.02	-0.21	0.38	-0.22	-0.17	6531	2.9
18	O022	B	-1.421	0.036	0.82	0.38	0.006	0.10	0.82	0.06	0.02	-0.18	0.38	-0.26	-0.18	6514	5.7
19	O022	B	-1.421	0.035	0.82	0.37	0.005	0.10	0.82	0.05	0.02	-0.20	0.37	-0.23	-0.17	6559	2.6
20	O022	B	-1.421	0.036	0.83	0.37	0.003	0.09	0.83	0.06	0.03	-0.18	0.37	-0.24	-0.20	6534	2.8
1	O051	D	-1.295	0.033	0.81	0.39	0.003	0.02	0.02	0.15	0.81	-0.15	-0.15	-0.30	0.39	6942	1.4
2	O051	D	-1.295	0.034	0.81	0.38	0.002	0.02	0.02	0.15	0.81	-0.14	-0.17	-0.29	0.38	6569	1.7
3	O051	D	-1.295	0.034	0.80	0.41	0.002	0.02	0.02	0.16	0.80	-0.15	-0.17	-0.31	0.41	6581	2.8
4	O051	D	-1.295	0.034	0.80	0.40	0.002	0.02	0.02	0.16	0.80	-0.14	-0.16	-0.31	0.40	6542	1.5
5	O051	D	-1.295	0.035	0.81	0.40	0.003	0.02	0.03	0.15	0.81	-0.15	-0.17	-0.30	0.40	6531	3.4
6	O051	D	-1.295	0.035	0.81	0.39	0.002	0.02	0.02	0.15	0.81	-0.14	-0.17	-0.30	0.39	6544	4.3
7	O051	D	-1.295	0.034	0.80	0.41	0.002	0.02	0.02	0.16	0.80	-0.14	-0.17	-0.31	0.41	6544	3.2
8	O051	D	-1.295	0.034	0.81	0.41	0.002	0.02	0.03	0.15	0.81	-0.15	-0.17	-0.32	0.41	6560	-0.3
9	O051	D	-1.295	0.035	0.80	0.41	0.002	0.02	0.03	0.16	0.80	-0.14	-0.19	-0.30	0.41	6552	1.9
10	O051	D	-1.295	0.034	0.81	0.41	0.002	0.02	0.03	0.15	0.81	-0.14	-0.18	-0.31	0.41	6554	0.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O051	D	-1.295	0.035	0.81	0.40	0.002	0.01	0.03	0.15	0.81	-0.13	-0.18	-0.31	0.40	6512	0.6
12	O051	D	-1.295	0.034	0.80	0.41	0.002	0.02	0.02	0.15	0.80	-0.14	-0.17	-0.31	0.41	6542	0.6
13	O051	D	-1.295	0.034	0.81	0.37	0.002	0.02	0.02	0.15	0.81	-0.13	-0.15	-0.29	0.37	6541	1.3
14	O051	D	-1.295	0.035	0.82	0.39	0.002	0.02	0.02	0.15	0.82	-0.13	-0.14	-0.31	0.39	6518	3.2
15	O051	D	-1.295	0.035	0.81	0.38	0.002	0.02	0.02	0.15	0.81	-0.15	-0.16	-0.28	0.38	6519	3.0
16	O051	D	-1.295	0.035	0.81	0.40	0.002	0.01	0.02	0.15	0.81	-0.13	-0.17	-0.31	0.40	6511	1.3
17	O051	D	-1.295	0.034	0.81	0.41	0.003	0.01	0.02	0.15	0.81	-0.15	-0.18	-0.31	0.41	6531	1.3
18	O051	D	-1.295	0.035	0.82	0.39	0.003	0.01	0.02	0.14	0.82	-0.12	-0.16	-0.31	0.39	6514	2.4
19	O051	D	-1.295	0.034	0.81	0.41	0.001	0.02	0.02	0.15	0.81	-0.14	-0.17	-0.32	0.41	6559	2.1
20	O051	D	-1.295	0.035	0.81	0.39	0.002	0.02	0.02	0.15	0.81	-0.14	-0.17	-0.30	0.39	6534	2.4
1	O052	C	0.322	0.027	0.53	0.60	0.008	0.19	0.23	0.53	0.04	-0.37	-0.33	0.60	-0.06	6942	-9.9
2	O052	C	0.322	0.028	0.54	0.59	0.007	0.19	0.23	0.54	0.04	-0.38	-0.32	0.59	-0.06	6569	-9.0
3	O052	C	0.322	0.028	0.54	0.60	0.005	0.19	0.23	0.54	0.03	-0.38	-0.32	0.60	-0.05	6581	-9.5
4	O052	C	0.322	0.028	0.55	0.59	0.006	0.18	0.23	0.55	0.04	-0.35	-0.33	0.59	-0.07	6542	-9.9
5	O052	C	0.322	0.029	0.55	0.61	0.007	0.19	0.23	0.55	0.03	-0.36	-0.34	0.61	-0.07	6531	-8.7
6	O052	C	0.322	0.028	0.56	0.60	0.005	0.18	0.23	0.56	0.03	-0.37	-0.33	0.60	-0.05	6544	-8.8
7	O052	C	0.322	0.028	0.54	0.61	0.007	0.19	0.24	0.54	0.04	-0.37	-0.34	0.61	-0.05	6544	-8.7
8	O052	C	0.322	0.028	0.55	0.60	0.006	0.18	0.23	0.55	0.03	-0.37	-0.34	0.60	-0.03	6560	-9.4
9	O052	C	0.322	0.028	0.54	0.60	0.006	0.19	0.23	0.54	0.04	-0.37	-0.34	0.60	-0.05	6552	-8.7
10	O052	C	0.322	0.028	0.54	0.59	0.005	0.19	0.24	0.54	0.03	-0.36	-0.34	0.59	-0.05	6554	-9.4
11	O052	C	0.322	0.028	0.55	0.59	0.007	0.19	0.22	0.55	0.03	-0.39	-0.30	0.59	-0.05	6512	-7.5
12	O052	C	0.322	0.028	0.53	0.59	0.007	0.19	0.24	0.53	0.04	-0.36	-0.32	0.59	-0.05	6542	-9.9
13	O052	C	0.322	0.028	0.55	0.59	0.007	0.19	0.23	0.55	0.04	-0.36	-0.32	0.59	-0.05	6541	-9.9
14	O052	C	0.322	0.029	0.56	0.58	0.007	0.18	0.22	0.56	0.03	-0.36	-0.32	0.58	-0.05	6518	-7.5
15	O052	C	0.322	0.028	0.54	0.60	0.008	0.18	0.24	0.54	0.03	-0.37	-0.33	0.60	-0.05	6519	-8.9
16	O052	C	0.322	0.028	0.55	0.58	0.005	0.18	0.23	0.55	0.03	-0.37	-0.32	0.58	-0.06	6511	-8.3
17	O052	C	0.322	0.029	0.55	0.59	0.007	0.18	0.23	0.55	0.03	-0.36	-0.34	0.59	-0.05	6531	-8.0
18	O052	C	0.322	0.029	0.54	0.61	0.005	0.19	0.22	0.54	0.04	-0.37	-0.34	0.61	-0.05	6514	-7.9
19	O052	C	0.322	0.029	0.54	0.61	0.007	0.19	0.24	0.54	0.03	-0.37	-0.34	0.61	-0.05	6559	-8.4
20	O052	C	0.322	0.029	0.53	0.59	0.005	0.19	0.24	0.53	0.04	-0.37	-0.32	0.59	-0.05	6534	-7.2
1	O053	C	-1.903	0.038	0.87	0.32	0.002	0.01	0.07	0.87	0.05	-0.15	-0.19	0.32	-0.17	6942	5.4
2	O053	C	-1.903	0.040	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.14	-0.21	0.32	-0.16	6569	2.2
3	O053	C	-1.903	0.040	0.87	0.32	0.001	0.01	0.07	0.87	0.05	-0.15	-0.21	0.32	-0.17	6581	5.1
4	O053	C	-1.903	0.040	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.14	-0.19	0.32	-0.19	6542	1.2
5	O053	C	-1.903	0.041	0.88	0.33	0.003	0.01	0.06	0.88	0.05	-0.15	-0.20	0.33	-0.18	6531	2.9
6	O053	C	-1.903	0.041	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.13	-0.19	0.32	-0.21	6544	3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
7	O053	C	-1.903	0.040	0.87	0.34	0.003	0.01	0.07	0.87	0.05	-0.15	-0.21	0.34	-0.18	6544	4.3
8	O053	C	-1.903	0.040	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.15	-0.20	0.32	-0.17	6560	3.1
9	O053	C	-1.903	0.041	0.87	0.32	0.002	0.01	0.06	0.87	0.05	-0.14	-0.19	0.32	-0.19	6552	6.8
10	O053	C	-1.903	0.040	0.88	0.34	0.001	0.01	0.06	0.88	0.05	-0.16	-0.20	0.34	-0.21	6554	0.2
11	O053	C	-1.903	0.041	0.88	0.32	0.002	0.01	0.06	0.88	0.04	-0.14	-0.19	0.32	-0.19	6512	2.5
12	O053	C	-1.903	0.040	0.88	0.31	0.002	0.01	0.06	0.88	0.05	-0.14	-0.18	0.31	-0.18	6542	3.7
13	O053	C	-1.903	0.040	0.88	0.30	0.002	0.01	0.06	0.88	0.05	-0.12	-0.19	0.30	-0.17	6541	4.2
14	O053	C	-1.903	0.041	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.14	-0.20	0.32	-0.16	6518	5.9
15	O053	C	-1.903	0.041	0.88	0.31	0.002	0.01	0.06	0.88	0.05	-0.14	-0.17	0.31	-0.19	6519	3.8
16	O053	C	-1.903	0.041	0.88	0.32	0.002	0.01	0.06	0.88	0.05	-0.16	-0.19	0.32	-0.19	6511	4.3
17	O053	C	-1.903	0.040	0.87	0.34	0.003	0.02	0.07	0.87	0.04	-0.18	-0.19	0.34	-0.18	6531	4.2
18	O053	C	-1.903	0.041	0.87	0.33	0.002	0.01	0.06	0.87	0.06	-0.15	-0.20	0.33	-0.18	6514	6.1
19	O053	C	-1.903	0.040	0.88	0.31	0.001	0.01	0.06	0.88	0.05	-0.14	-0.20	0.31	-0.18	6559	5.0
20	O053	C	-1.903	0.041	0.88	0.30	0.001	0.01	0.06	0.88	0.06	-0.14	-0.18	0.30	-0.19	6534	6.2
1	O054	D	-0.055	0.028	0.61	0.50	0.004	0.08	0.12	0.18	0.61	-0.26	-0.25	-0.22	0.50	6942	-0.9
2	O054	D	-0.055	0.029	0.61	0.50	0.003	0.08	0.12	0.18	0.61	-0.28	-0.24	-0.21	0.50	6569	0.4
3	O054	D	-0.055	0.029	0.61	0.51	0.002	0.08	0.13	0.18	0.61	-0.27	-0.26	-0.22	0.51	6581	0.4
4	O054	D	-0.055	0.028	0.62	0.49	0.004	0.07	0.13	0.18	0.62	-0.27	-0.25	-0.21	0.49	6542	-1.5
5	O054	D	-0.055	0.029	0.62	0.50	0.003	0.08	0.13	0.17	0.62	-0.27	-0.26	-0.20	0.50	6531	0.8
6	O054	D	-0.055	0.029	0.63	0.50	0.002	0.08	0.12	0.17	0.63	-0.29	-0.26	-0.20	0.50	6544	0.9
7	O054	D	-0.055	0.029	0.61	0.51	0.003	0.08	0.12	0.18	0.61	-0.26	-0.25	-0.23	0.51	6544	-0.4
8	O054	D	-0.055	0.029	0.62	0.48	0.002	0.07	0.12	0.19	0.62	-0.27	-0.24	-0.21	0.48	6560	0.3
9	O054	D	-0.055	0.029	0.62	0.52	0.003	0.08	0.13	0.18	0.62	-0.26	-0.28	-0.23	0.52	6552	-1.5
10	O054	D	-0.055	0.029	0.61	0.51	0.002	0.08	0.13	0.18	0.61	-0.26	-0.26	-0.23	0.51	6554	-0.4
11	O054	D	-0.055	0.029	0.62	0.50	0.003	0.08	0.13	0.16	0.62	-0.27	-0.26	-0.21	0.50	6512	-0.3
12	O054	D	-0.055	0.028	0.62	0.49	0.003	0.08	0.13	0.18	0.62	-0.26	-0.25	-0.22	0.49	6542	-0.4
13	O054	D	-0.055	0.028	0.62	0.49	0.003	0.08	0.13	0.17	0.62	-0.28	-0.25	-0.19	0.49	6541	-1.2
14	O054	D	-0.055	0.029	0.63	0.50	0.003	0.08	0.13	0.17	0.63	-0.28	-0.27	-0.19	0.50	6518	-0.1
15	O054	D	-0.055	0.029	0.62	0.49	0.002	0.08	0.13	0.17	0.62	-0.26	-0.26	-0.20	0.49	6519	0.5
16	O054	D	-0.055	0.029	0.62	0.50	0.003	0.08	0.13	0.18	0.62	-0.27	-0.25	-0.22	0.50	6511	0.7
17	O054	D	-0.055	0.029	0.62	0.51	0.004	0.08	0.13	0.17	0.62	-0.25	-0.27	-0.22	0.51	6531	-0.6
18	O054	D	-0.055	0.029	0.63	0.51	0.004	0.08	0.12	0.17	0.63	-0.28	-0.26	-0.22	0.51	6514	1.9
19	O054	D	-0.055	0.029	0.61	0.52	0.002	0.08	0.12	0.18	0.61	-0.30	-0.26	-0.22	0.52	6559	-0.1
20	O054	D	-0.055	0.029	0.62	0.50	0.002	0.08	0.13	0.18	0.62	-0.28	-0.26	-0.21	0.50	6534	0.3
1	O055	A	-0.858	0.030	0.73	0.53	0.004	0.73	0.14	0.07	0.06	0.53	-0.30	-0.28	-0.23	6942	-6.6
2	O055	A	-0.858	0.032	0.74	0.53	0.003	0.74	0.13	0.07	0.06	0.53	-0.31	-0.29	-0.22	6569	-5.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O055	A	-0.858	0.031	0.74	0.54	0.003	0.74	0.14	0.07	0.06	0.54	-0.31	-0.28	-0.24	6581	-6.8
4	O055	A	-0.858	0.031	0.75	0.53	0.003	0.75	0.13	0.06	0.06	0.53	-0.32	-0.28	-0.22	6542	-8.8
5	O055	A	-0.858	0.032	0.74	0.52	0.005	0.74	0.13	0.07	0.05	0.52	-0.31	-0.27	-0.22	6531	-5.5
6	O055	A	-0.858	0.032	0.75	0.54	0.002	0.75	0.13	0.06	0.06	0.54	-0.32	-0.29	-0.22	6544	-6.6
7	O055	A	-0.858	0.032	0.74	0.53	0.004	0.74	0.14	0.06	0.06	0.53	-0.31	-0.27	-0.22	6544	-6.2
8	O055	A	-0.858	0.031	0.75	0.54	0.003	0.75	0.13	0.06	0.05	0.54	-0.34	-0.27	-0.22	6560	-9.2
9	O055	A	-0.858	0.032	0.74	0.54	0.003	0.74	0.13	0.07	0.06	0.54	-0.31	-0.29	-0.24	6552	-5.2
10	O055	A	-0.858	0.031	0.74	0.54	0.002	0.74	0.14	0.07	0.05	0.54	-0.33	-0.27	-0.23	6554	-8.0
11	O055	A	-0.858	0.032	0.74	0.54	0.004	0.74	0.13	0.07	0.05	0.54	-0.30	-0.30	-0.23	6512	-6.4
12	O055	A	-0.858	0.031	0.74	0.52	0.003	0.74	0.13	0.07	0.06	0.52	-0.30	-0.28	-0.22	6542	-7.4
13	O055	A	-0.858	0.031	0.74	0.53	0.002	0.74	0.14	0.07	0.06	0.53	-0.32	-0.28	-0.22	6541	-8.2
14	O055	A	-0.858	0.032	0.75	0.53	0.003	0.75	0.13	0.07	0.05	0.53	-0.31	-0.28	-0.22	6518	-4.9
15	O055	A	-0.858	0.032	0.75	0.53	0.003	0.75	0.13	0.07	0.06	0.53	-0.31	-0.28	-0.22	6519	-6.7
16	O055	A	-0.858	0.032	0.75	0.53	0.003	0.75	0.14	0.06	0.05	0.53	-0.32	-0.27	-0.22	6511	-6.7
17	O055	A	-0.858	0.032	0.74	0.55	0.003	0.74	0.13	0.06	0.06	0.55	-0.32	-0.28	-0.24	6531	-7.3
18	O055	A	-0.858	0.032	0.74	0.54	0.004	0.74	0.14	0.06	0.06	0.54	-0.32	-0.26	-0.23	6514	-4.6
19	O055	A	-0.858	0.032	0.73	0.55	0.002	0.73	0.14	0.07	0.06	0.55	-0.32	-0.30	-0.23	6559	-6.3
20	O055	A	-0.858	0.032	0.75	0.52	0.001	0.75	0.13	0.06	0.06	0.52	-0.30	-0.28	-0.23	6534	-5.4
1	O056	A	-0.219	0.028	0.63	0.53	0.005	0.63	0.24	0.09	0.05	0.53	-0.34	-0.25	-0.16	6942	-5.2
2	O056	A	-0.219	0.029	0.65	0.54	0.003	0.65	0.23	0.08	0.04	0.54	-0.37	-0.24	-0.16	6569	-6.7
3	O056	A	-0.219	0.029	0.64	0.54	0.003	0.64	0.23	0.08	0.04	0.54	-0.36	-0.25	-0.16	6581	-5.7
4	O056	A	-0.219	0.029	0.64	0.52	0.003	0.64	0.24	0.07	0.04	0.52	-0.35	-0.24	-0.16	6542	-6.6
5	O056	A	-0.219	0.029	0.64	0.53	0.004	0.64	0.24	0.08	0.04	0.53	-0.36	-0.23	-0.16	6531	-3.8
6	O056	A	-0.219	0.029	0.64	0.53	0.003	0.64	0.24	0.07	0.04	0.53	-0.37	-0.23	-0.16	6544	-4.3
7	O056	A	-0.219	0.029	0.64	0.54	0.003	0.64	0.23	0.08	0.05	0.54	-0.36	-0.24	-0.17	6544	-5.1
8	O056	A	-0.219	0.029	0.65	0.54	0.003	0.65	0.23	0.08	0.05	0.54	-0.36	-0.25	-0.18	6560	-7.0
9	O056	A	-0.219	0.029	0.64	0.52	0.003	0.64	0.24	0.08	0.05	0.52	-0.34	-0.24	-0.16	6552	-2.8
10	O056	A	-0.219	0.029	0.64	0.53	0.003	0.64	0.24	0.08	0.04	0.53	-0.35	-0.25	-0.17	6554	-6.4
11	O056	A	-0.219	0.029	0.64	0.54	0.003	0.64	0.23	0.08	0.04	0.54	-0.37	-0.24	-0.15	6512	-5.6
12	O056	A	-0.219	0.029	0.64	0.52	0.004	0.64	0.23	0.08	0.04	0.52	-0.33	-0.25	-0.16	6542	-5.8
13	O056	A	-0.219	0.029	0.64	0.53	0.003	0.64	0.23	0.08	0.05	0.53	-0.34	-0.24	-0.17	6541	-7.3
14	O056	A	-0.219	0.029	0.64	0.55	0.004	0.64	0.23	0.07	0.05	0.55	-0.37	-0.25	-0.19	6518	-6.5
15	O056	A	-0.219	0.029	0.63	0.54	0.004	0.63	0.24	0.08	0.05	0.54	-0.35	-0.24	-0.18	6519	-4.3
16	O056	A	-0.219	0.029	0.65	0.53	0.003	0.65	0.23	0.08	0.04	0.53	-0.35	-0.24	-0.17	6511	-5.2
17	O056	A	-0.219	0.029	0.64	0.52	0.004	0.64	0.24	0.08	0.04	0.52	-0.34	-0.25	-0.15	6531	-3.2
18	O056	A	-0.219	0.030	0.63	0.52	0.002	0.63	0.25	0.08	0.04	0.52	-0.35	-0.24	-0.16	6514	-2.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
19	O056	A	-0.219	0.029	0.64	0.52	0.003	0.64	0.24	0.08	0.05	0.52	-0.34	-0.24	-0.17	6559	-3.5
20	O056	A	-0.219	0.029	0.64	0.52	0.002	0.64	0.24	0.08	0.05	0.52	-0.35	-0.23	-0.17	6534	-2.7
1	O057	C	-1.473	0.034	0.82	0.44	0.004	0.07	0.06	0.82	0.05	-0.27	-0.19	0.44	-0.24	6942	-3.7
2	O057	C	-1.473	0.036	0.82	0.44	0.003	0.07	0.06	0.82	0.05	-0.26	-0.19	0.44	-0.25	6569	-1.0
3	O057	C	-1.473	0.036	0.83	0.43	0.004	0.07	0.06	0.83	0.05	-0.26	-0.19	0.43	-0.23	6581	-1.9
4	O057	C	-1.473	0.035	0.84	0.42	0.005	0.07	0.05	0.84	0.04	-0.27	-0.17	0.42	-0.23	6542	-4.6
5	O057	C	-1.473	0.036	0.83	0.44	0.005	0.06	0.05	0.83	0.05	-0.26	-0.19	0.44	-0.23	6531	-2.3
6	O057	C	-1.473	0.036	0.83	0.43	0.002	0.07	0.06	0.83	0.05	-0.27	-0.18	0.43	-0.24	6544	0.2
7	O057	C	-1.473	0.036	0.82	0.45	0.005	0.07	0.06	0.82	0.05	-0.27	-0.20	0.45	-0.24	6544	-1.4
8	O057	C	-1.473	0.036	0.83	0.43	0.004	0.07	0.06	0.83	0.04	-0.27	-0.18	0.43	-0.23	6560	0.3
9	O057	C	-1.473	0.036	0.83	0.44	0.004	0.07	0.06	0.83	0.04	-0.26	-0.21	0.44	-0.23	6552	-2.5
10	O057	C	-1.473	0.035	0.84	0.43	0.002	0.06	0.05	0.84	0.05	-0.24	-0.21	0.43	-0.25	6554	-4.2
11	O057	C	-1.473	0.036	0.83	0.43	0.003	0.07	0.06	0.83	0.05	-0.25	-0.19	0.43	-0.24	6512	-0.9
12	O057	C	-1.473	0.036	0.83	0.43	0.004	0.07	0.06	0.83	0.04	-0.27	-0.19	0.43	-0.22	6542	-1.7
13	O057	C	-1.473	0.035	0.83	0.43	0.004	0.07	0.05	0.83	0.04	-0.26	-0.20	0.43	-0.22	6541	-5.1
14	O057	C	-1.473	0.036	0.84	0.43	0.003	0.07	0.05	0.84	0.04	-0.26	-0.20	0.43	-0.22	6518	-2.2
15	O057	C	-1.473	0.036	0.84	0.43	0.004	0.07	0.05	0.84	0.04	-0.27	-0.18	0.43	-0.23	6519	-1.5
16	O057	C	-1.473	0.036	0.83	0.44	0.004	0.07	0.05	0.83	0.04	-0.27	-0.19	0.44	-0.24	6511	-2.8
17	O057	C	-1.473	0.036	0.83	0.44	0.004	0.07	0.05	0.83	0.05	-0.26	-0.19	0.44	-0.24	6531	-3.2
18	O057	C	-1.473	0.037	0.83	0.44	0.004	0.07	0.05	0.83	0.05	-0.28	-0.20	0.44	-0.22	6514	-0.7
19	O057	C	-1.473	0.036	0.84	0.42	0.004	0.06	0.05	0.84	0.04	-0.25	-0.20	0.42	-0.22	6559	-2.3
20	O057	C	-1.473	0.037	0.83	0.44	0.002	0.07	0.06	0.83	0.05	-0.27	-0.19	0.44	-0.24	6534	-1.5
1	O058	A	0.267	0.028	0.55	0.55	0.004	0.55	0.24	0.10	0.10	0.55	-0.22	-0.29	-0.28	6942	-4.4
2	O058	A	0.267	0.028	0.55	0.55	0.004	0.55	0.25	0.10	0.10	0.55	-0.22	-0.29	-0.28	6569	-4.1
3	O058	A	0.267	0.028	0.54	0.57	0.003	0.54	0.25	0.10	0.11	0.57	-0.22	-0.31	-0.30	6581	-5.9
4	O058	A	0.267	0.028	0.55	0.56	0.004	0.55	0.25	0.10	0.11	0.56	-0.22	-0.28	-0.31	6542	-7.7
5	O058	A	0.267	0.029	0.56	0.56	0.004	0.56	0.24	0.10	0.10	0.56	-0.22	-0.31	-0.29	6531	-3.7
6	O058	A	0.267	0.028	0.56	0.57	0.003	0.56	0.24	0.10	0.10	0.57	-0.23	-0.32	-0.29	6544	-4.8
7	O058	A	0.267	0.028	0.55	0.57	0.003	0.55	0.24	0.10	0.10	0.57	-0.23	-0.31	-0.29	6544	-5.4
8	O058	A	0.267	0.028	0.56	0.56	0.002	0.56	0.25	0.09	0.10	0.56	-0.24	-0.30	-0.28	6560	-6.5
9	O058	A	0.267	0.029	0.56	0.59	0.003	0.56	0.24	0.09	0.11	0.59	-0.25	-0.30	-0.30	6552	-7.4
10	O058	A	0.267	0.028	0.55	0.58	0.002	0.55	0.24	0.10	0.10	0.58	-0.25	-0.30	-0.29	6554	-7.5
11	O058	A	0.267	0.029	0.57	0.56	0.003	0.57	0.23	0.09	0.10	0.56	-0.23	-0.30	-0.30	6512	-6.4
12	O058	A	0.267	0.028	0.55	0.56	0.004	0.55	0.25	0.10	0.10	0.56	-0.25	-0.28	-0.29	6542	-7.7
13	O058	A	0.267	0.028	0.56	0.55	0.003	0.56	0.24	0.10	0.10	0.55	-0.24	-0.29	-0.27	6541	-7.0
14	O058	A	0.267	0.029	0.56	0.56	0.003	0.56	0.24	0.10	0.10	0.56	-0.23	-0.30	-0.29	6518	-5.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O058	A	0.267	0.028	0.56	0.55	0.002	0.56	0.24	0.10	0.10	0.55	-0.22	-0.30	-0.29	6519	-4.8
16	O058	A	0.267	0.028	0.56	0.57	0.004	0.56	0.24	0.10	0.10	0.57	-0.23	-0.30	-0.30	6511	-6.3
17	O058	A	0.267	0.029	0.55	0.56	0.004	0.55	0.25	0.10	0.10	0.56	-0.22	-0.31	-0.29	6531	-5.1
18	O058	A	0.267	0.029	0.57	0.55	0.004	0.57	0.24	0.09	0.10	0.55	-0.22	-0.29	-0.30	6514	-2.3
19	O058	A	0.267	0.029	0.57	0.57	0.002	0.57	0.25	0.09	0.10	0.57	-0.25	-0.31	-0.28	6559	-5.5
20	O058	A	0.267	0.029	0.55	0.57	0.002	0.55	0.24	0.09	0.11	0.57	-0.22	-0.29	-0.33	6534	-4.9
1	O059	D	-0.252	0.028	0.64	0.60	0.004	0.12	0.14	0.09	0.64	-0.32	-0.34	-0.21	0.60	6942	-7.9
2	O059	D	-0.252	0.029	0.64	0.60	0.004	0.12	0.15	0.09	0.64	-0.29	-0.35	-0.22	0.60	6569	-6.5
3	O059	D	-0.252	0.029	0.65	0.62	0.004	0.12	0.15	0.08	0.65	-0.32	-0.36	-0.22	0.62	6581	-8.8
4	O059	D	-0.252	0.029	0.65	0.61	0.006	0.12	0.14	0.09	0.65	-0.31	-0.36	-0.22	0.61	6542	-9.5
5	O059	D	-0.252	0.030	0.65	0.62	0.004	0.12	0.14	0.09	0.65	-0.31	-0.36	-0.22	0.62	6531	-7.3
6	O059	D	-0.252	0.029	0.65	0.61	0.004	0.12	0.14	0.09	0.65	-0.30	-0.35	-0.22	0.61	6544	-6.4
7	O059	D	-0.252	0.029	0.65	0.59	0.005	0.11	0.14	0.10	0.65	-0.31	-0.32	-0.22	0.59	6544	-5.9
8	O059	D	-0.252	0.029	0.65	0.58	0.004	0.11	0.15	0.09	0.65	-0.28	-0.36	-0.20	0.58	6560	-6.8
9	O059	D	-0.252	0.029	0.66	0.60	0.004	0.12	0.14	0.09	0.66	-0.32	-0.35	-0.21	0.60	6552	-7.6
10	O059	D	-0.252	0.029	0.64	0.60	0.004	0.12	0.15	0.09	0.64	-0.32	-0.34	-0.21	0.60	6554	-8.5
11	O059	D	-0.252	0.029	0.65	0.59	0.004	0.12	0.14	0.09	0.65	-0.30	-0.34	-0.22	0.59	6512	-5.9
12	O059	D	-0.252	0.029	0.65	0.59	0.004	0.11	0.14	0.09	0.65	-0.30	-0.35	-0.21	0.59	6542	-8.1
13	O059	D	-0.252	0.029	0.65	0.59	0.005	0.12	0.14	0.09	0.65	-0.31	-0.34	-0.20	0.59	6541	-9.6
14	O059	D	-0.252	0.030	0.66	0.61	0.004	0.11	0.14	0.09	0.66	-0.31	-0.34	-0.22	0.61	6518	-7.2
15	O059	D	-0.252	0.029	0.64	0.60	0.004	0.12	0.15	0.09	0.64	-0.30	-0.35	-0.22	0.60	6519	-6.8
16	O059	D	-0.252	0.029	0.65	0.60	0.004	0.11	0.14	0.09	0.65	-0.32	-0.34	-0.22	0.60	6511	-6.7
17	O059	D	-0.252	0.029	0.64	0.60	0.004	0.12	0.15	0.09	0.64	-0.30	-0.35	-0.21	0.60	6531	-5.8
18	O059	D	-0.252	0.030	0.65	0.62	0.005	0.12	0.15	0.09	0.65	-0.31	-0.36	-0.22	0.62	6514	-6.4
19	O059	D	-0.252	0.029	0.64	0.60	0.004	0.12	0.15	0.09	0.64	-0.31	-0.34	-0.22	0.60	6559	-4.2
20	O059	D	-0.252	0.030	0.66	0.61	0.004	0.12	0.14	0.09	0.66	-0.32	-0.35	-0.22	0.61	6534	-6.6
1	O060	B	0.659	0.028	0.49	0.44	0.005	0.40	0.49	0.06	0.05	-0.31	0.44	-0.21	-0.05	6942	8.2
2	O060	B	0.659	0.028	0.49	0.43	0.004	0.40	0.49	0.06	0.05	-0.28	0.43	-0.21	-0.09	6569	7.6
3	O060	B	0.659	0.028	0.50	0.45	0.003	0.39	0.50	0.07	0.05	-0.31	0.45	-0.24	-0.05	6581	6.4
4	O060	B	0.659	0.028	0.49	0.42	0.004	0.40	0.49	0.06	0.04	-0.28	0.42	-0.21	-0.08	6542	7.0
5	O060	B	0.659	0.029	0.50	0.43	0.004	0.39	0.50	0.06	0.04	-0.28	0.43	-0.21	-0.08	6531	8.7
6	O060	B	0.659	0.028	0.50	0.43	0.003	0.40	0.50	0.06	0.05	-0.29	0.43	-0.21	-0.11	6544	7.0
7	O060	B	0.659	0.028	0.50	0.41	0.004	0.39	0.50	0.06	0.05	-0.28	0.41	-0.22	-0.04	6544	8.9
8	O060	B	0.659	0.028	0.50	0.43	0.004	0.39	0.50	0.06	0.05	-0.28	0.43	-0.23	-0.08	6560	7.2
9	O060	B	0.659	0.028	0.50	0.44	0.004	0.40	0.50	0.06	0.04	-0.30	0.44	-0.22	-0.08	6552	7.0
10	O060	B	0.659	0.028	0.49	0.43	0.003	0.39	0.49	0.07	0.05	-0.27	0.43	-0.24	-0.09	6554	6.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O060	B	0.659	0.028	0.50	0.44	0.003	0.40	0.50	0.06	0.04	-0.30	0.44	-0.22	-0.08	6512	6.7
12	O060	B	0.659	0.028	0.49	0.43	0.005	0.40	0.49	0.06	0.04	-0.28	0.43	-0.23	-0.06	6542	4.5
13	O060	B	0.659	0.028	0.49	0.45	0.004	0.40	0.49	0.06	0.04	-0.30	0.45	-0.22	-0.08	6541	5.1
14	O060	B	0.659	0.028	0.49	0.44	0.004	0.40	0.49	0.06	0.05	-0.30	0.44	-0.23	-0.07	6518	6.0
15	O060	B	0.659	0.028	0.50	0.42	0.004	0.39	0.50	0.06	0.05	-0.29	0.42	-0.19	-0.07	6519	7.1
16	O060	B	0.659	0.028	0.50	0.42	0.003	0.40	0.50	0.06	0.05	-0.30	0.42	-0.20	-0.04	6511	8.7
17	O060	B	0.659	0.029	0.49	0.43	0.005	0.40	0.49	0.06	0.05	-0.29	0.43	-0.20	-0.08	6531	8.7
18	O060	B	0.659	0.029	0.50	0.43	0.004	0.39	0.50	0.06	0.04	-0.28	0.43	-0.24	-0.06	6514	7.7
19	O060	B	0.659	0.029	0.50	0.45	0.002	0.39	0.50	0.06	0.05	-0.33	0.45	-0.22	-0.05	6559	7.0
20	O060	B	0.659	0.028	0.50	0.44	0.002	0.40	0.50	0.06	0.04	-0.31	0.44	-0.20	-0.08	6534	6.6
1	O061	C	0.347	0.027	0.53	0.55	0.004	0.07	0.32	0.53	0.08	-0.19	-0.43	0.55	-0.07	6942	-3.6
2	O061	C	0.347	0.028	0.54	0.55	0.003	0.07	0.31	0.54	0.08	-0.19	-0.43	0.55	-0.07	6569	-4.4
3	O061	C	0.347	0.028	0.53	0.54	0.003	0.07	0.32	0.53	0.08	-0.19	-0.42	0.54	-0.09	6581	-4.0
4	O061	C	0.347	0.028	0.55	0.54	0.004	0.07	0.30	0.55	0.08	-0.20	-0.41	0.54	-0.08	6542	-5.2
5	O061	C	0.347	0.029	0.55	0.54	0.004	0.07	0.30	0.55	0.08	-0.18	-0.43	0.54	-0.07	6531	-3.5
6	O061	C	0.347	0.028	0.54	0.55	0.002	0.07	0.31	0.54	0.08	-0.20	-0.42	0.55	-0.09	6544	-3.5
7	O061	C	0.347	0.028	0.54	0.54	0.004	0.07	0.31	0.54	0.08	-0.20	-0.43	0.54	-0.07	6544	-3.2
8	O061	C	0.347	0.028	0.54	0.55	0.003	0.07	0.30	0.54	0.09	-0.21	-0.42	0.55	-0.08	6560	-5.5
9	O061	C	0.347	0.028	0.55	0.54	0.004	0.07	0.30	0.55	0.08	-0.19	-0.42	0.54	-0.08	6552	-3.6
10	O061	C	0.347	0.028	0.53	0.54	0.003	0.08	0.31	0.53	0.08	-0.20	-0.41	0.54	-0.09	6554	-4.8
11	O061	C	0.347	0.028	0.55	0.53	0.003	0.07	0.30	0.55	0.08	-0.20	-0.43	0.53	-0.06	6512	-3.2
12	O061	C	0.347	0.028	0.55	0.56	0.004	0.07	0.30	0.55	0.08	-0.21	-0.42	0.56	-0.09	6542	-7.3
13	O061	C	0.347	0.028	0.54	0.53	0.004	0.07	0.31	0.54	0.08	-0.20	-0.41	0.53	-0.07	6541	-5.7
14	O061	C	0.347	0.029	0.54	0.55	0.004	0.07	0.31	0.54	0.08	-0.20	-0.42	0.55	-0.09	6518	-4.2
15	O061	C	0.347	0.028	0.54	0.52	0.004	0.07	0.30	0.54	0.08	-0.19	-0.40	0.52	-0.07	6519	-2.7
16	O061	C	0.347	0.028	0.55	0.54	0.002	0.06	0.31	0.55	0.08	-0.18	-0.43	0.54	-0.09	6511	-4.3
17	O061	C	0.347	0.029	0.54	0.52	0.004	0.07	0.30	0.54	0.08	-0.20	-0.41	0.52	-0.05	6531	-0.9
18	O061	C	0.347	0.029	0.54	0.54	0.004	0.07	0.30	0.54	0.08	-0.19	-0.42	0.54	-0.08	6514	-2.4
19	O061	C	0.347	0.029	0.54	0.56	0.003	0.07	0.32	0.54	0.08	-0.19	-0.45	0.56	-0.07	6559	-4.4
20	O061	C	0.347	0.029	0.54	0.54	0.003	0.07	0.31	0.54	0.08	-0.19	-0.44	0.54	-0.06	6534	-3.3
1	O093	A	-0.880	0.030	0.74	0.50	0.005	0.74	0.07	0.10	0.09	0.50	-0.25	-0.28	-0.22	6942	-5.9
2	O093	A	-0.880	0.032	0.74	0.50	0.003	0.74	0.08	0.09	0.09	0.50	-0.25	-0.30	-0.21	6569	-4.9
3	O093	A	-0.880	0.032	0.73	0.50	0.004	0.73	0.08	0.09	0.09	0.50	-0.25	-0.29	-0.22	6581	-3.3
4	O093	A	-0.880	0.031	0.74	0.50	0.003	0.74	0.08	0.09	0.09	0.50	-0.26	-0.28	-0.22	6542	-4.7
5	O093	A	-0.880	0.032	0.77	0.50	0.005	0.77	0.07	0.08	0.07	0.50	-0.25	-0.29	-0.23	6531	-7.6
6	O093	A	-0.880	0.032	0.74	0.50	0.003	0.74	0.08	0.10	0.09	0.50	-0.26	-0.28	-0.23	6544	-2.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O093	A	-0.880	0.032	0.78	0.48	0.003	0.78	0.07	0.08	0.07	0.48	-0.26	-0.27	-0.22	6544	-7.8
8	O093	A	-0.880	0.032	0.74	0.50	0.004	0.74	0.08	0.09	0.09	0.50	-0.27	-0.28	-0.22	6560	-5.0
9	O093	A	-0.880	0.032	0.73	0.49	0.003	0.73	0.08	0.09	0.09	0.49	-0.26	-0.28	-0.22	6552	-2.3
10	O093	A	-0.880	0.031	0.73	0.51	0.005	0.73	0.08	0.10	0.09	0.51	-0.26	-0.29	-0.22	6554	-4.6
11	O093	A	-0.880	0.032	0.74	0.49	0.003	0.74	0.08	0.09	0.09	0.49	-0.26	-0.26	-0.23	6512	-3.2
12	O093	A	-0.880	0.031	0.74	0.49	0.005	0.74	0.08	0.09	0.09	0.49	-0.26	-0.28	-0.21	6542	-4.1
13	O093	A	-0.880	0.031	0.75	0.51	0.004	0.75	0.07	0.09	0.08	0.51	-0.26	-0.29	-0.23	6541	-7.4
14	O093	A	-0.880	0.032	0.77	0.49	0.004	0.77	0.07	0.08	0.08	0.49	-0.25	-0.29	-0.23	6518	-6.5
15	O093	A	-0.880	0.032	0.72	0.51	0.004	0.72	0.08	0.10	0.10	0.51	-0.26	-0.28	-0.23	6519	-2.2
16	O093	A	-0.880	0.032	0.76	0.51	0.003	0.76	0.08	0.08	0.08	0.51	-0.27	-0.27	-0.24	6511	-6.3
17	O093	A	-0.880	0.032	0.74	0.52	0.004	0.74	0.08	0.09	0.09	0.52	-0.26	-0.29	-0.23	6531	-4.7
18	O093	A	-0.880	0.032	0.74	0.50	0.005	0.74	0.08	0.09	0.09	0.50	-0.25	-0.28	-0.23	6514	-2.8
19	O093	A	-0.880	0.032	0.74	0.52	0.004	0.74	0.08	0.09	0.09	0.52	-0.26	-0.31	-0.22	6559	-5.4
20	O093	A	-0.880	0.032	0.75	0.49	0.003	0.75	0.08	0.09	0.08	0.49	-0.25	-0.30	-0.21	6534	-2.9
1	O094	C	-0.375	0.028	0.65	0.55	0.006	0.06	0.18	0.65	0.11	-0.22	-0.37	0.55	-0.19	6942	-3.8
2	O094	C	-0.375	0.030	0.66	0.53	0.006	0.06	0.17	0.66	0.10	-0.23	-0.37	0.53	-0.17	6569	-2.4
3	O094	C	-0.375	0.030	0.65	0.54	0.003	0.06	0.19	0.65	0.10	-0.22	-0.38	0.54	-0.17	6581	-2.5
4	O094	C	-0.375	0.029	0.66	0.53	0.005	0.05	0.17	0.66	0.11	-0.22	-0.37	0.53	-0.18	6542	-5.9
5	O094	C	-0.375	0.030	0.67	0.51	0.007	0.05	0.17	0.67	0.10	-0.22	-0.35	0.51	-0.17	6531	-0.9
6	O094	C	-0.375	0.030	0.67	0.53	0.006	0.05	0.18	0.67	0.09	-0.23	-0.37	0.53	-0.17	6544	-2.8
7	O094	C	-0.375	0.030	0.69	0.52	0.004	0.05	0.16	0.69	0.09	-0.23	-0.35	0.52	-0.20	6544	-4.3
8	O094	C	-0.375	0.029	0.67	0.53	0.005	0.05	0.17	0.67	0.10	-0.24	-0.35	0.53	-0.19	6560	-4.6
9	O094	C	-0.375	0.030	0.66	0.50	0.004	0.05	0.18	0.66	0.10	-0.22	-0.36	0.50	-0.16	6552	0.9
10	O094	C	-0.375	0.029	0.66	0.53	0.005	0.06	0.18	0.66	0.10	-0.22	-0.36	0.53	-0.19	6554	-3.0
11	O094	C	-0.375	0.030	0.66	0.52	0.004	0.06	0.17	0.66	0.11	-0.23	-0.36	0.52	-0.18	6512	-0.7
12	O094	C	-0.375	0.029	0.67	0.53	0.006	0.05	0.17	0.67	0.10	-0.23	-0.36	0.53	-0.20	6542	-4.8
13	O094	C	-0.375	0.029	0.65	0.53	0.006	0.06	0.18	0.65	0.10	-0.21	-0.37	0.53	-0.17	6541	-4.0
14	O094	C	-0.375	0.030	0.67	0.52	0.004	0.05	0.17	0.67	0.10	-0.22	-0.35	0.52	-0.18	6518	-2.8
15	O094	C	-0.375	0.030	0.67	0.50	0.006	0.06	0.18	0.67	0.10	-0.22	-0.34	0.50	-0.17	6519	-0.6
16	O094	C	-0.375	0.030	0.70	0.54	0.004	0.05	0.16	0.70	0.09	-0.23	-0.36	0.54	-0.21	6511	-6.5
17	O094	C	-0.375	0.030	0.66	0.51	0.005	0.06	0.18	0.66	0.10	-0.23	-0.34	0.51	-0.17	6531	-0.6
18	O094	C	-0.375	0.030	0.67	0.52	0.005	0.06	0.17	0.67	0.10	-0.23	-0.35	0.52	-0.18	6514	-0.7
19	O094	C	-0.375	0.030	0.67	0.54	0.004	0.06	0.17	0.67	0.10	-0.23	-0.36	0.54	-0.19	6559	-2.2
20	O094	C	-0.375	0.030	0.66	0.52	0.003	0.06	0.17	0.66	0.10	-0.22	-0.36	0.52	-0.18	6534	-1.7
1	O095	A	-0.261	0.028	0.63	0.52	0.005	0.63	0.13	0.10	0.13	0.52	-0.18	-0.31	-0.26	6942	-4.2
2	O095	A	-0.261	0.029	0.64	0.52	0.004	0.64	0.13	0.10	0.12	0.52	-0.19	-0.33	-0.25	6569	-3.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O095	A	-0.261	0.029	0.65	0.55	0.003	0.65	0.14	0.10	0.11	0.55	-0.21	-0.33	-0.28	6581	-6.8
4	O095	A	-0.261	0.029	0.66	0.53	0.004	0.66	0.13	0.10	0.12	0.53	-0.18	-0.34	-0.26	6542	-7.0
5	O095	A	-0.261	0.030	0.64	0.53	0.005	0.64	0.13	0.10	0.12	0.53	-0.18	-0.32	-0.27	6531	-2.2
6	O095	A	-0.261	0.030	0.66	0.51	0.004	0.66	0.13	0.10	0.11	0.51	-0.18	-0.32	-0.26	6544	-3.7
7	O095	A	-0.261	0.029	0.64	0.52	0.005	0.64	0.13	0.10	0.13	0.52	-0.20	-0.31	-0.25	6544	-3.5
8	O095	A	-0.261	0.029	0.65	0.54	0.004	0.65	0.12	0.10	0.12	0.54	-0.19	-0.33	-0.27	6560	-6.4
9	O095	A	-0.261	0.030	0.65	0.52	0.004	0.65	0.12	0.11	0.12	0.52	-0.18	-0.32	-0.26	6552	-2.7
10	O095	A	-0.261	0.029	0.64	0.53	0.003	0.64	0.12	0.11	0.12	0.53	-0.18	-0.34	-0.26	6554	-6.1
11	O095	A	-0.261	0.030	0.65	0.52	0.005	0.65	0.13	0.11	0.11	0.52	-0.19	-0.33	-0.24	6512	-3.4
12	O095	A	-0.261	0.029	0.65	0.52	0.004	0.65	0.13	0.10	0.12	0.52	-0.20	-0.31	-0.26	6542	-5.3
13	O095	A	-0.261	0.029	0.64	0.52	0.005	0.64	0.13	0.09	0.13	0.52	-0.18	-0.31	-0.27	6541	-5.5
14	O095	A	-0.261	0.030	0.65	0.52	0.005	0.65	0.12	0.10	0.12	0.52	-0.19	-0.32	-0.25	6518	-4.1
15	O095	A	-0.261	0.029	0.66	0.53	0.003	0.66	0.13	0.10	0.11	0.53	-0.21	-0.31	-0.26	6519	-5.3
16	O095	A	-0.261	0.029	0.66	0.52	0.004	0.66	0.13	0.10	0.11	0.52	-0.19	-0.32	-0.27	6511	-5.7
17	O095	A	-0.261	0.029	0.64	0.55	0.005	0.64	0.12	0.10	0.12	0.55	-0.20	-0.33	-0.27	6531	-6.0
18	O095	A	-0.261	0.030	0.64	0.53	0.004	0.64	0.13	0.10	0.13	0.53	-0.18	-0.32	-0.27	6514	-3.3
19	O095	A	-0.261	0.029	0.65	0.54	0.003	0.65	0.12	0.10	0.12	0.54	-0.19	-0.34	-0.27	6559	-4.6
20	O095	A	-0.261	0.030	0.65	0.52	0.003	0.65	0.12	0.10	0.13	0.52	-0.18	-0.32	-0.26	6534	-3.2
1	O096	B	0.091	0.028	0.57	0.57	0.004	0.14	0.57	0.17	0.12	-0.34	0.57	-0.23	-0.22	6942	-6.1
2	O096	B	0.091	0.029	0.59	0.57	0.004	0.14	0.59	0.16	0.11	-0.36	0.57	-0.22	-0.23	6569	-6.1
3	O096	B	0.091	0.029	0.58	0.58	0.003	0.15	0.58	0.16	0.11	-0.34	0.58	-0.24	-0.24	6581	-6.8
4	O096	B	0.091	0.028	0.57	0.55	0.004	0.15	0.57	0.18	0.10	-0.34	0.55	-0.22	-0.21	6542	-5.9
5	O096	B	0.091	0.029	0.59	0.57	0.006	0.14	0.59	0.16	0.11	-0.31	0.57	-0.25	-0.24	6531	-4.8
6	O096	B	0.091	0.029	0.60	0.57	0.004	0.13	0.60	0.17	0.10	-0.34	0.57	-0.22	-0.25	6544	-6.0
7	O096	B	0.091	0.029	0.58	0.55	0.004	0.15	0.58	0.17	0.10	-0.31	0.55	-0.25	-0.22	6544	-5.1
8	O096	B	0.091	0.028	0.59	0.57	0.005	0.13	0.59	0.16	0.12	-0.31	0.57	-0.24	-0.25	6560	-6.3
9	O096	B	0.091	0.029	0.59	0.56	0.004	0.15	0.59	0.16	0.10	-0.33	0.56	-0.22	-0.23	6552	-4.3
10	O096	B	0.091	0.028	0.58	0.56	0.003	0.15	0.58	0.17	0.10	-0.34	0.56	-0.24	-0.21	6554	-5.7
11	O096	B	0.091	0.029	0.57	0.55	0.003	0.15	0.57	0.18	0.10	-0.34	0.55	-0.23	-0.20	6512	-3.5
12	O096	B	0.091	0.028	0.57	0.57	0.003	0.14	0.57	0.16	0.12	-0.33	0.57	-0.21	-0.25	6542	-7.1
13	O096	B	0.091	0.028	0.58	0.55	0.005	0.15	0.58	0.16	0.10	-0.31	0.55	-0.23	-0.23	6541	-7.1
14	O096	B	0.091	0.029	0.59	0.56	0.003	0.14	0.59	0.16	0.10	-0.33	0.56	-0.22	-0.23	6518	-4.0
15	O096	B	0.091	0.029	0.58	0.57	0.004	0.15	0.58	0.16	0.10	-0.35	0.57	-0.23	-0.22	6519	-5.4
16	O096	B	0.091	0.029	0.58	0.54	0.005	0.14	0.58	0.17	0.11	-0.31	0.54	-0.22	-0.23	6511	-3.4
17	O096	B	0.091	0.029	0.59	0.57	0.004	0.15	0.59	0.16	0.11	-0.34	0.57	-0.22	-0.25	6531	-5.4
18	O096	B	0.091	0.029	0.60	0.57	0.004	0.14	0.60	0.16	0.09	-0.33	0.57	-0.23	-0.25	6514	-4.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O096	B	0.091	0.029	0.59	0.58	0.004	0.13	0.59	0.15	0.13	-0.33	0.58	-0.23	-0.25	6559	-5.4
20	O096	B	0.091	0.029	0.58	0.56	0.004	0.15	0.58	0.16	0.11	-0.32	0.56	-0.22	-0.25	6534	-3.8
1	O097	B	-0.944	0.031	0.74	0.51	0.003	0.14	0.74	0.09	0.03	-0.35	0.51	-0.23	-0.19	6942	-2.5
2	O097	B	-0.944	0.032	0.75	0.50	0.002	0.14	0.75	0.08	0.03	-0.34	0.50	-0.23	-0.21	6569	-2.3
3	O097	B	-0.944	0.032	0.76	0.50	0.002	0.14	0.76	0.08	0.03	-0.32	0.50	-0.25	-0.21	6581	-1.6
4	O097	B	-0.944	0.032	0.75	0.52	0.002	0.14	0.75	0.08	0.03	-0.35	0.52	-0.24	-0.21	6542	-4.4
5	O097	B	-0.944	0.032	0.76	0.50	0.004	0.14	0.76	0.08	0.02	-0.35	0.50	-0.21	-0.18	6531	-0.1
6	O097	B	-0.944	0.032	0.76	0.50	0.002	0.13	0.76	0.08	0.02	-0.36	0.50	-0.22	-0.19	6544	-2.7
7	O097	B	-0.944	0.032	0.75	0.50	0.003	0.14	0.75	0.08	0.03	-0.34	0.50	-0.23	-0.20	6544	-3.0
8	O097	B	-0.944	0.032	0.76	0.51	0.002	0.14	0.76	0.08	0.02	-0.36	0.51	-0.23	-0.19	6560	-5.2
9	O097	B	-0.944	0.032	0.77	0.52	0.003	0.13	0.77	0.07	0.02	-0.36	0.52	-0.24	-0.20	6552	-4.8
10	O097	B	-0.944	0.032	0.76	0.49	0.002	0.14	0.76	0.08	0.03	-0.35	0.49	-0.22	-0.19	6554	-3.1
11	O097	B	-0.944	0.032	0.77	0.50	0.002	0.13	0.77	0.08	0.02	-0.34	0.50	-0.24	-0.20	6512	-3.6
12	O097	B	-0.944	0.032	0.75	0.49	0.002	0.14	0.75	0.09	0.03	-0.33	0.49	-0.23	-0.19	6542	-3.2
13	O097	B	-0.944	0.032	0.76	0.49	0.002	0.14	0.76	0.08	0.02	-0.35	0.49	-0.23	-0.16	6541	-5.8
14	O097	B	-0.944	0.033	0.76	0.52	0.002	0.13	0.76	0.08	0.02	-0.36	0.52	-0.24	-0.18	6518	-3.8
15	O097	B	-0.944	0.032	0.75	0.49	0.002	0.14	0.75	0.08	0.03	-0.34	0.49	-0.21	-0.20	6519	-1.8
16	O097	B	-0.944	0.032	0.76	0.49	0.002	0.14	0.76	0.07	0.02	-0.35	0.49	-0.22	-0.19	6511	-3.8
17	O097	B	-0.944	0.032	0.75	0.51	0.003	0.14	0.75	0.08	0.02	-0.35	0.51	-0.24	-0.18	6531	-2.0
18	O097	B	-0.944	0.033	0.75	0.52	0.002	0.14	0.75	0.08	0.02	-0.36	0.52	-0.23	-0.20	6514	-2.1
19	O097	B	-0.944	0.032	0.76	0.49	0.003	0.13	0.76	0.08	0.03	-0.35	0.49	-0.21	-0.20	6559	-2.3
20	O097	B	-0.944	0.033	0.76	0.51	0.001	0.14	0.76	0.08	0.03	-0.36	0.51	-0.23	-0.19	6534	-2.8
1	O098	A	1.273	0.029	0.36	0.50	0.009	0.36	0.22	0.18	0.23	0.50	-0.20	-0.21	-0.17	6942	1.9
2	O098	A	1.273	0.029	0.37	0.51	0.006	0.37	0.23	0.16	0.23	0.51	-0.19	-0.25	-0.16	6569	0.4
3	O098	A	1.273	0.029	0.37	0.49	0.006	0.37	0.21	0.17	0.24	0.49	-0.17	-0.27	-0.14	6581	3.5
4	O098	A	1.273	0.029	0.38	0.49	0.007	0.38	0.22	0.16	0.23	0.49	-0.19	-0.23	-0.17	6542	2.9
5	O098	A	1.273	0.029	0.37	0.52	0.008	0.37	0.22	0.17	0.23	0.52	-0.20	-0.25	-0.16	6531	0.8
6	O098	A	1.273	0.029	0.38	0.50	0.006	0.38	0.21	0.17	0.24	0.50	-0.18	-0.25	-0.17	6544	0.5
7	O098	A	1.273	0.029	0.37	0.50	0.009	0.37	0.22	0.17	0.24	0.50	-0.20	-0.25	-0.14	6544	2.0
8	O098	A	1.273	0.029	0.39	0.50	0.007	0.39	0.22	0.16	0.22	0.50	-0.21	-0.25	-0.16	6560	2.3
9	O098	A	1.273	0.029	0.38	0.50	0.009	0.38	0.21	0.18	0.23	0.50	-0.18	-0.27	-0.14	6552	1.6
10	O098	A	1.273	0.029	0.37	0.48	0.007	0.37	0.22	0.17	0.24	0.48	-0.19	-0.24	-0.14	6554	2.6
11	O098	A	1.273	0.029	0.38	0.49	0.006	0.38	0.21	0.17	0.24	0.49	-0.19	-0.24	-0.16	6512	3.5
12	O098	A	1.273	0.029	0.37	0.50	0.009	0.37	0.22	0.16	0.24	0.50	-0.20	-0.24	-0.15	6542	1.6
13	O098	A	1.273	0.029	0.38	0.52	0.009	0.38	0.20	0.17	0.24	0.52	-0.19	-0.25	-0.18	6541	-1.0
14	O098	A	1.273	0.029	0.38	0.50	0.006	0.38	0.21	0.17	0.23	0.50	-0.21	-0.24	-0.15	6518	2.6

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O098	A	1.273	0.029	0.38	0.51	0.007	0.38	0.22	0.17	0.23	0.51	-0.19	-0.25	-0.17	6519	0.7
16	O098	A	1.273	0.029	0.42	0.55	0.008	0.42	0.18	0.16	0.23	0.55	-0.21	-0.28	-0.19	6511	0.8
17	O098	A	1.273	0.030	0.38	0.50	0.010	0.38	0.21	0.17	0.24	0.50	-0.19	-0.23	-0.17	6531	2.0
18	O098	A	1.273	0.030	0.38	0.49	0.008	0.38	0.22	0.16	0.24	0.49	-0.19	-0.23	-0.17	6514	1.8
19	O098	A	1.273	0.029	0.37	0.49	0.007	0.37	0.22	0.17	0.24	0.49	-0.18	-0.24	-0.16	6559	3.2
20	O098	A	1.273	0.029	0.38	0.52	0.006	0.38	0.22	0.16	0.23	0.52	-0.22	-0.24	-0.18	6534	-1.6
1	O099	C	0.092	0.028	0.59	0.55	0.004	0.06	0.06	0.59	0.29	-0.23	-0.20	0.55	-0.36	6942	-4.9
2	O099	C	0.092	0.029	0.62	0.56	0.003	0.06	0.06	0.62	0.26	-0.24	-0.23	0.56	-0.35	6569	-6.3
3	O099	C	0.092	0.029	0.62	0.57	0.002	0.05	0.06	0.62	0.27	-0.23	-0.24	0.57	-0.38	6581	-6.6
4	O099	C	0.092	0.028	0.61	0.56	0.003	0.05	0.06	0.61	0.28	-0.23	-0.23	0.56	-0.37	6542	-8.1
5	O099	C	0.092	0.029	0.59	0.57	0.004	0.05	0.06	0.59	0.29	-0.23	-0.24	0.57	-0.36	6531	-1.5
6	O099	C	0.092	0.029	0.57	0.54	0.003	0.06	0.06	0.57	0.31	-0.24	-0.23	0.54	-0.33	6544	-0.3
7	O099	C	0.092	0.029	0.56	0.55	0.003	0.06	0.07	0.56	0.31	-0.25	-0.23	0.55	-0.33	6544	-0.7
8	O099	C	0.092	0.028	0.63	0.57	0.003	0.05	0.06	0.63	0.26	-0.24	-0.24	0.57	-0.37	6560	-6.8
9	O099	C	0.092	0.029	0.56	0.53	0.003	0.06	0.07	0.56	0.31	-0.24	-0.23	0.53	-0.32	6552	-0.5
10	O099	C	0.092	0.028	0.59	0.54	0.003	0.06	0.07	0.59	0.28	-0.24	-0.26	0.54	-0.32	6554	-4.7
11	O099	C	0.092	0.029	0.60	0.54	0.003	0.06	0.06	0.60	0.28	-0.23	-0.23	0.54	-0.33	6512	-3.1
12	O099	C	0.092	0.028	0.59	0.55	0.004	0.05	0.06	0.59	0.29	-0.22	-0.23	0.55	-0.35	6542	-6.1
13	O099	C	0.092	0.028	0.56	0.56	0.004	0.06	0.06	0.56	0.31	-0.24	-0.22	0.56	-0.35	6541	-6.4
14	O099	C	0.092	0.029	0.63	0.57	0.004	0.06	0.06	0.63	0.25	-0.26	-0.25	0.57	-0.34	6518	-6.0
15	O099	C	0.092	0.029	0.58	0.55	0.004	0.06	0.07	0.58	0.30	-0.23	-0.24	0.55	-0.34	6519	-2.7
16	O099	C	0.092	0.029	0.58	0.54	0.004	0.06	0.06	0.58	0.30	-0.25	-0.22	0.54	-0.33	6511	-1.2
17	O099	C	0.092	0.029	0.55	0.55	0.004	0.06	0.07	0.55	0.31	-0.24	-0.24	0.55	-0.32	6531	-0.8
18	O099	C	0.092	0.029	0.56	0.55	0.003	0.05	0.07	0.56	0.31	-0.22	-0.24	0.55	-0.35	6514	0.5
19	O099	C	0.092	0.029	0.60	0.57	0.002	0.06	0.06	0.60	0.28	-0.23	-0.25	0.57	-0.36	6559	-4.8
20	O099	C	0.092	0.029	0.55	0.55	0.002	0.06	0.06	0.55	0.33	-0.26	-0.21	0.55	-0.34	6534	1.2
1	O100	D	0.245	0.028	0.54	0.43	0.003	0.09	0.30	0.07	0.54	-0.34	-0.10	-0.27	0.43	6942	9.1
2	O100	D	0.245	0.028	0.56	0.43	0.002	0.08	0.30	0.06	0.56	-0.32	-0.12	-0.29	0.43	6569	9.1
3	O100	D	0.245	0.028	0.56	0.42	0.002	0.07	0.31	0.06	0.56	-0.30	-0.14	-0.28	0.42	6581	9.4
4	O100	D	0.245	0.028	0.56	0.44	0.002	0.08	0.30	0.06	0.56	-0.33	-0.13	-0.28	0.44	6542	4.5
5	O100	D	0.245	0.029	0.55	0.44	0.004	0.08	0.31	0.06	0.55	-0.33	-0.12	-0.29	0.44	6531	9.9
6	O100	D	0.245	0.029	0.55	0.42	0.002	0.07	0.31	0.06	0.55	-0.31	-0.12	-0.28	0.42	6544	9.9
7	O100	D	0.245	0.028	0.55	0.43	0.003	0.07	0.31	0.07	0.55	-0.31	-0.13	-0.28	0.43	6544	9.2
8	O100	D	0.245	0.028	0.55	0.44	0.003	0.07	0.31	0.06	0.55	-0.30	-0.14	-0.29	0.44	6560	7.1
9	O100	D	0.245	0.029	0.56	0.43	0.002	0.08	0.30	0.06	0.56	-0.30	-0.14	-0.28	0.43	6552	8.9
10	O100	D	0.245	0.028	0.58	0.46	0.002	0.07	0.29	0.06	0.58	-0.31	-0.16	-0.29	0.46	6554	3.9

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
11	O100	D	0.245	0.029	0.56	0.41	0.002	0.07	0.32	0.05	0.56	-0.29	-0.15	-0.25	0.41	6512	9.9
12	O100	D	0.245	0.028	0.56	0.44	0.003	0.07	0.30	0.06	0.56	-0.30	-0.14	-0.29	0.44	6542	4.7
13	O100	D	0.245	0.028	0.55	0.42	0.003	0.07	0.31	0.06	0.55	-0.30	-0.14	-0.27	0.42	6541	5.9
14	O100	D	0.245	0.029	0.55	0.44	0.002	0.08	0.31	0.06	0.55	-0.32	-0.14	-0.28	0.44	6518	8.0
15	O100	D	0.245	0.028	0.56	0.42	0.003	0.07	0.30	0.06	0.56	-0.30	-0.13	-0.27	0.42	6519	7.8
16	O100	D	0.245	0.028	0.56	0.44	0.002	0.07	0.31	0.06	0.56	-0.30	-0.15	-0.28	0.44	6511	8.1
17	O100	D	0.245	0.029	0.54	0.44	0.004	0.08	0.31	0.07	0.54	-0.31	-0.12	-0.29	0.44	6531	9.9
18	O100	D	0.245	0.029	0.55	0.42	0.003	0.08	0.31	0.06	0.55	-0.33	-0.11	-0.28	0.42	6514	9.9
19	O100	D	0.245	0.029	0.61	0.51	0.002	0.07	0.26	0.06	0.61	-0.31	-0.22	-0.28	0.51	6559	-0.0
20	O100	D	0.245	0.029	0.55	0.43	0.002	0.07	0.31	0.07	0.55	-0.32	-0.13	-0.29	0.43	6534	9.9
1	O101	C	-1.466	0.034	0.81	0.54	0.004	0.09	0.07	0.81	0.03	-0.34	-0.30	0.54	-0.20	6942	-7.4
2	O101	C	-1.466	0.036	0.82	0.53	0.003	0.08	0.07	0.82	0.03	-0.33	-0.29	0.53	-0.21	6569	-6.9
3	O101	C	-1.466	0.036	0.83	0.52	0.003	0.08	0.06	0.83	0.03	-0.33	-0.28	0.52	-0.21	6581	-9.0
4	O101	C	-1.466	0.035	0.82	0.52	0.003	0.08	0.07	0.82	0.03	-0.32	-0.30	0.52	-0.20	6542	-8.5
5	O101	C	-1.466	0.036	0.83	0.51	0.004	0.08	0.06	0.83	0.03	-0.31	-0.29	0.51	-0.19	6531	-5.6
6	O101	C	-1.466	0.036	0.82	0.53	0.003	0.08	0.07	0.82	0.03	-0.33	-0.30	0.53	-0.19	6544	-4.1
7	O101	C	-1.466	0.036	0.82	0.51	0.003	0.09	0.06	0.82	0.03	-0.32	-0.28	0.51	-0.19	6544	-6.7
8	O101	C	-1.466	0.036	0.83	0.53	0.004	0.08	0.06	0.83	0.03	-0.32	-0.30	0.53	-0.21	6560	-8.6
9	O101	C	-1.466	0.036	0.83	0.52	0.003	0.07	0.06	0.83	0.03	-0.31	-0.32	0.52	-0.19	6552	-7.3
10	O101	C	-1.466	0.035	0.81	0.54	0.002	0.08	0.07	0.81	0.03	-0.33	-0.31	0.54	-0.22	6554	-8.0
11	O101	C	-1.466	0.036	0.82	0.53	0.003	0.08	0.07	0.82	0.03	-0.34	-0.31	0.53	-0.17	6512	-6.2
12	O101	C	-1.466	0.036	0.82	0.51	0.003	0.08	0.06	0.82	0.03	-0.31	-0.28	0.51	-0.20	6542	-6.4
13	O101	C	-1.466	0.035	0.85	0.51	0.003	0.07	0.06	0.85	0.03	-0.33	-0.29	0.51	-0.18	6541	-9.9
14	O101	C	-1.466	0.036	0.83	0.51	0.003	0.07	0.06	0.83	0.03	-0.30	-0.29	0.51	-0.20	6518	-5.8
15	O101	C	-1.466	0.036	0.82	0.52	0.003	0.08	0.06	0.82	0.03	-0.33	-0.28	0.52	-0.21	6519	-6.3
16	O101	C	-1.466	0.036	0.81	0.51	0.004	0.09	0.07	0.81	0.03	-0.31	-0.30	0.51	-0.17	6511	-3.6
17	O101	C	-1.466	0.036	0.85	0.51	0.004	0.07	0.06	0.85	0.02	-0.31	-0.30	0.51	-0.18	6531	-9.3
18	O101	C	-1.466	0.036	0.83	0.53	0.003	0.07	0.06	0.83	0.03	-0.31	-0.32	0.53	-0.20	6514	-7.3
19	O101	C	-1.466	0.036	0.81	0.51	0.003	0.08	0.07	0.81	0.03	-0.32	-0.29	0.51	-0.19	6559	-5.1
20	O101	C	-1.466	0.037	0.83	0.51	0.002	0.08	0.06	0.83	0.03	-0.31	-0.30	0.51	-0.20	6534	-6.1
1	O102	B	-0.737	0.030	0.73	0.41	0.003	0.19	0.73	0.04	0.05	-0.25	0.41	-0.20	-0.19	6942	2.3
2	O102	B	-0.737	0.031	0.74	0.41	0.002	0.18	0.74	0.03	0.05	-0.25	0.41	-0.22	-0.19	6569	2.4
3	O102	B	-0.737	0.031	0.75	0.41	0.002	0.17	0.75	0.04	0.04	-0.25	0.41	-0.21	-0.19	6581	1.2
4	O102	B	-0.737	0.031	0.74	0.42	0.002	0.17	0.74	0.04	0.05	-0.25	0.42	-0.24	-0.19	6542	-0.3
5	O102	B	-0.737	0.031	0.73	0.38	0.003	0.19	0.73	0.03	0.05	-0.21	0.38	-0.21	-0.21	6531	6.2
6	O102	B	-0.737	0.031	0.72	0.39	0.002	0.20	0.72	0.04	0.04	-0.23	0.39	-0.23	-0.19	6544	7.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O102	B	-0.737	0.031	0.74	0.40	0.003	0.18	0.74	0.04	0.05	-0.24	0.40	-0.21	-0.18	6544	3.3
8	O102	B	-0.737	0.031	0.75	0.40	0.003	0.17	0.75	0.04	0.05	-0.23	0.40	-0.22	-0.19	6560	0.5
9	O102	B	-0.737	0.031	0.70	0.39	0.003	0.21	0.70	0.04	0.05	-0.22	0.39	-0.23	-0.19	6552	8.8
10	O102	B	-0.737	0.031	0.74	0.42	0.002	0.18	0.74	0.04	0.04	-0.25	0.42	-0.25	-0.20	6554	-0.0
11	O102	B	-0.737	0.031	0.74	0.39	0.002	0.18	0.74	0.03	0.04	-0.24	0.39	-0.20	-0.18	6512	3.9
12	O102	B	-0.737	0.031	0.73	0.39	0.003	0.18	0.73	0.04	0.05	-0.23	0.39	-0.22	-0.19	6542	1.8
13	O102	B	-0.737	0.031	0.74	0.40	0.003	0.18	0.74	0.03	0.05	-0.26	0.40	-0.21	-0.17	6541	0.3
14	O102	B	-0.737	0.031	0.73	0.38	0.002	0.18	0.73	0.04	0.05	-0.20	0.38	-0.21	-0.20	6518	7.7
15	O102	B	-0.737	0.031	0.73	0.40	0.002	0.18	0.73	0.03	0.05	-0.23	0.40	-0.20	-0.20	6519	3.1
16	O102	B	-0.737	0.031	0.74	0.39	0.003	0.18	0.74	0.04	0.04	-0.22	0.39	-0.22	-0.19	6511	4.0
17	O102	B	-0.737	0.031	0.73	0.41	0.003	0.19	0.73	0.03	0.05	-0.25	0.41	-0.21	-0.19	6531	4.0
18	O102	B	-0.737	0.032	0.73	0.41	0.002	0.18	0.73	0.04	0.05	-0.25	0.41	-0.21	-0.18	6514	5.8
19	O102	B	-0.737	0.031	0.73	0.42	0.002	0.19	0.73	0.04	0.04	-0.27	0.42	-0.21	-0.19	6559	2.0
20	O102	B	-0.737	0.031	0.74	0.40	0.001	0.18	0.74	0.03	0.05	-0.25	0.40	-0.19	-0.19	6534	4.8
1	O103	B	1.347	0.029	0.38	0.50	0.003	0.41	0.38	0.12	0.08	-0.26	0.50	-0.21	-0.14	6942	6.0
2	O103	B	1.347	0.029	0.37	0.49	0.003	0.42	0.37	0.12	0.09	-0.24	0.49	-0.22	-0.15	6569	5.0
3	O103	B	1.347	0.030	0.39	0.52	0.004	0.40	0.39	0.12	0.09	-0.29	0.52	-0.20	-0.15	6581	4.8
4	O103	B	1.347	0.029	0.37	0.49	0.005	0.42	0.37	0.12	0.09	-0.26	0.49	-0.21	-0.12	6542	4.5
5	O103	B	1.347	0.030	0.38	0.49	0.004	0.41	0.38	0.12	0.08	-0.25	0.49	-0.23	-0.12	6531	5.7
6	O103	B	1.347	0.029	0.37	0.48	0.003	0.42	0.37	0.12	0.09	-0.26	0.48	-0.22	-0.12	6544	4.2
7	O103	B	1.347	0.030	0.36	0.49	0.004	0.43	0.36	0.12	0.08	-0.25	0.49	-0.21	-0.12	6544	5.1
8	O103	B	1.347	0.029	0.37	0.50	0.003	0.41	0.37	0.13	0.09	-0.25	0.50	-0.22	-0.14	6560	3.3
9	O103	B	1.347	0.029	0.37	0.49	0.004	0.43	0.37	0.12	0.08	-0.25	0.49	-0.22	-0.13	6552	4.7
10	O103	B	1.347	0.030	0.37	0.48	0.003	0.41	0.37	0.12	0.09	-0.22	0.48	-0.23	-0.14	6554	6.6
11	O103	B	1.347	0.029	0.37	0.49	0.004	0.42	0.37	0.13	0.08	-0.24	0.49	-0.22	-0.16	6512	3.3
12	O103	B	1.347	0.029	0.38	0.52	0.003	0.41	0.38	0.11	0.09	-0.28	0.52	-0.22	-0.14	6542	2.1
13	O103	B	1.347	0.029	0.37	0.50	0.004	0.41	0.37	0.12	0.09	-0.25	0.50	-0.23	-0.13	6541	4.9
14	O103	B	1.347	0.030	0.40	0.51	0.003	0.39	0.40	0.13	0.08	-0.28	0.51	-0.22	-0.13	6518	5.5
15	O103	B	1.347	0.029	0.37	0.50	0.004	0.42	0.37	0.12	0.09	-0.26	0.50	-0.19	-0.15	6519	3.0
16	O103	B	1.347	0.030	0.39	0.50	0.004	0.39	0.39	0.12	0.09	-0.28	0.50	-0.20	-0.14	6511	5.8
17	O103	B	1.347	0.030	0.38	0.50	0.004	0.41	0.38	0.12	0.08	-0.26	0.50	-0.21	-0.14	6531	5.9
18	O103	B	1.347	0.030	0.38	0.51	0.003	0.42	0.38	0.12	0.08	-0.28	0.51	-0.23	-0.11	6514	3.4
19	O103	B	1.347	0.030	0.37	0.50	0.002	0.42	0.37	0.12	0.09	-0.26	0.50	-0.20	-0.14	6559	4.4
20	O103	B	1.347	0.029	0.36	0.48	0.002	0.43	0.36	0.13	0.09	-0.24	0.48	-0.23	-0.12	6534	2.8
1	O104	C	-0.367	0.028	0.66	0.60	0.004	0.15	0.11	0.66	0.08	-0.37	-0.33	0.60	-0.16	6942	-9.5
2	O104	C	-0.367	0.030	0.67	0.57	0.002	0.14	0.10	0.67	0.09	-0.33	-0.35	0.57	-0.16	6569	-4.8

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O104	C	-0.367	0.030	0.68	0.58	0.003	0.15	0.10	0.68	0.07	-0.35	-0.34	0.58	-0.17	6581	-7.6
4	O104	C	-0.367	0.029	0.67	0.58	0.005	0.15	0.11	0.67	0.08	-0.34	-0.35	0.58	-0.15	6542	-8.9
5	O104	C	-0.367	0.030	0.67	0.57	0.004	0.14	0.10	0.67	0.08	-0.35	-0.34	0.57	-0.13	6531	-4.9
6	O104	C	-0.367	0.030	0.65	0.57	0.004	0.15	0.12	0.65	0.08	-0.34	-0.33	0.57	-0.14	6544	-3.4
7	O104	C	-0.367	0.030	0.66	0.55	0.004	0.15	0.11	0.66	0.08	-0.33	-0.33	0.55	-0.13	6544	-3.3
8	O104	C	-0.367	0.029	0.67	0.57	0.003	0.14	0.10	0.67	0.09	-0.33	-0.35	0.57	-0.15	6560	-5.1
9	O104	C	-0.367	0.030	0.65	0.57	0.003	0.15	0.12	0.65	0.08	-0.33	-0.34	0.57	-0.14	6552	-3.0
10	O104	C	-0.367	0.029	0.67	0.59	0.004	0.14	0.11	0.67	0.08	-0.34	-0.34	0.59	-0.18	6554	-9.4
11	O104	C	-0.367	0.030	0.67	0.57	0.003	0.14	0.10	0.67	0.09	-0.33	-0.34	0.57	-0.16	6512	-3.5
12	O104	C	-0.367	0.029	0.69	0.59	0.003	0.14	0.10	0.69	0.07	-0.36	-0.32	0.59	-0.19	6542	-8.8
13	O104	C	-0.367	0.029	0.66	0.55	0.004	0.15	0.11	0.66	0.08	-0.33	-0.33	0.55	-0.13	6541	-5.4
14	O104	C	-0.367	0.030	0.68	0.55	0.004	0.13	0.10	0.68	0.08	-0.33	-0.34	0.55	-0.13	6518	-3.5
15	O104	C	-0.367	0.030	0.67	0.57	0.003	0.14	0.11	0.67	0.08	-0.32	-0.34	0.57	-0.17	6519	-6.3
16	O104	C	-0.367	0.030	0.67	0.56	0.004	0.14	0.10	0.67	0.08	-0.32	-0.34	0.56	-0.16	6511	-4.0
17	O104	C	-0.367	0.030	0.65	0.57	0.004	0.15	0.12	0.65	0.08	-0.33	-0.33	0.57	-0.14	6531	-3.1
18	O104	C	-0.367	0.030	0.66	0.56	0.004	0.14	0.12	0.66	0.08	-0.31	-0.34	0.56	-0.15	6514	-0.8
19	O104	C	-0.367	0.030	0.66	0.56	0.003	0.15	0.11	0.66	0.09	-0.35	-0.35	0.56	-0.11	6559	-1.7
20	O104	C	-0.367	0.030	0.65	0.56	0.002	0.15	0.12	0.65	0.08	-0.33	-0.34	0.56	-0.14	6534	-0.6
1	O105	D	0.435	0.027	0.50	0.61	0.005	0.22	0.12	0.16	0.50	-0.22	-0.27	-0.34	0.61	6942	-9.9
2	O105	D	0.435	0.028	0.55	0.61	0.004	0.19	0.12	0.14	0.55	-0.26	-0.28	-0.31	0.61	6569	-9.9
3	O105	D	0.435	0.028	0.51	0.60	0.004	0.21	0.12	0.15	0.51	-0.22	-0.27	-0.33	0.60	6581	-8.8
4	O105	D	0.435	0.028	0.53	0.61	0.004	0.20	0.12	0.15	0.53	-0.24	-0.29	-0.31	0.61	6542	-9.9
5	O105	D	0.435	0.029	0.51	0.58	0.006	0.22	0.12	0.15	0.51	-0.20	-0.26	-0.32	0.58	6531	-5.9
6	O105	D	0.435	0.028	0.52	0.58	0.005	0.21	0.11	0.15	0.52	-0.21	-0.26	-0.32	0.58	6544	-7.1
7	O105	D	0.435	0.028	0.50	0.59	0.006	0.22	0.12	0.15	0.50	-0.23	-0.26	-0.31	0.59	6544	-7.9
8	O105	D	0.435	0.028	0.58	0.63	0.004	0.18	0.11	0.13	0.58	-0.29	-0.28	-0.31	0.63	6560	-9.9
9	O105	D	0.435	0.028	0.53	0.60	0.005	0.20	0.11	0.16	0.53	-0.23	-0.27	-0.32	0.60	6552	-8.6
10	O105	D	0.435	0.028	0.52	0.60	0.004	0.21	0.11	0.15	0.52	-0.24	-0.26	-0.32	0.60	6554	-9.3
11	O105	D	0.435	0.028	0.52	0.62	0.004	0.20	0.13	0.15	0.52	-0.23	-0.27	-0.33	0.62	6512	-9.9
12	O105	D	0.435	0.028	0.51	0.60	0.005	0.21	0.13	0.15	0.51	-0.23	-0.28	-0.31	0.60	6542	-9.9
13	O105	D	0.435	0.028	0.55	0.61	0.005	0.18	0.12	0.15	0.55	-0.25	-0.28	-0.31	0.61	6541	-9.9
14	O105	D	0.435	0.028	0.52	0.60	0.005	0.21	0.12	0.15	0.52	-0.24	-0.27	-0.31	0.60	6518	-9.2
15	O105	D	0.435	0.028	0.56	0.62	0.005	0.18	0.11	0.15	0.56	-0.26	-0.27	-0.33	0.62	6519	-9.9
16	O105	D	0.435	0.028	0.51	0.59	0.006	0.21	0.13	0.14	0.51	-0.23	-0.29	-0.29	0.59	6511	-8.2
17	O105	D	0.435	0.029	0.52	0.60	0.007	0.21	0.12	0.15	0.52	-0.21	-0.27	-0.33	0.60	6531	-8.0
18	O105	D	0.435	0.029	0.53	0.60	0.004	0.20	0.11	0.15	0.53	-0.21	-0.27	-0.34	0.60	6514	-7.1

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O105	D	0.435	0.029	0.51	0.59	0.005	0.21	0.12	0.15	0.51	-0.22	-0.27	-0.32	0.59	6559	-6.7
20	O105	D	0.435	0.028	0.51	0.61	0.004	0.21	0.12	0.15	0.51	-0.23	-0.27	-0.32	0.61	6534	-8.8
1	O106	D	-0.271	0.028	0.65	0.45	0.004	0.13	0.11	0.11	0.65	-0.24	-0.26	-0.14	0.45	6942	-0.2
2	O106	D	-0.271	0.029	0.65	0.46	0.003	0.13	0.11	0.10	0.65	-0.25	-0.28	-0.13	0.46	6569	1.4
3	O106	D	-0.271	0.029	0.65	0.46	0.004	0.13	0.11	0.11	0.65	-0.26	-0.27	-0.13	0.46	6581	0.3
4	O106	D	-0.271	0.029	0.65	0.47	0.004	0.13	0.11	0.11	0.65	-0.25	-0.27	-0.15	0.47	6542	-2.2
5	O106	D	-0.271	0.030	0.66	0.46	0.004	0.13	0.11	0.10	0.66	-0.25	-0.28	-0.13	0.46	6531	1.9
6	O106	D	-0.271	0.030	0.65	0.46	0.004	0.13	0.11	0.10	0.65	-0.26	-0.27	-0.14	0.46	6544	0.1
7	O106	D	-0.271	0.029	0.65	0.45	0.003	0.13	0.11	0.10	0.65	-0.24	-0.28	-0.14	0.45	6544	0.7
8	O106	D	-0.271	0.029	0.65	0.46	0.002	0.13	0.11	0.10	0.65	-0.25	-0.27	-0.14	0.46	6560	-1.0
9	O106	D	-0.271	0.030	0.66	0.45	0.003	0.13	0.11	0.10	0.66	-0.24	-0.27	-0.15	0.45	6552	1.2
10	O106	D	-0.271	0.029	0.65	0.45	0.003	0.13	0.11	0.10	0.65	-0.25	-0.28	-0.12	0.45	6554	-0.4
11	O106	D	-0.271	0.030	0.65	0.47	0.003	0.14	0.11	0.10	0.65	-0.26	-0.28	-0.14	0.47	6512	-0.8
12	O106	D	-0.271	0.029	0.65	0.46	0.003	0.14	0.11	0.10	0.65	-0.26	-0.27	-0.14	0.46	6542	-1.8
13	O106	D	-0.271	0.029	0.65	0.46	0.003	0.13	0.11	0.10	0.65	-0.24	-0.27	-0.15	0.46	6541	-1.8
14	O106	D	-0.271	0.030	0.65	0.46	0.004	0.13	0.11	0.11	0.65	-0.24	-0.28	-0.15	0.46	6518	1.3
15	O106	D	-0.271	0.029	0.65	0.46	0.003	0.13	0.11	0.10	0.65	-0.24	-0.28	-0.16	0.46	6519	0.3
16	O106	D	-0.271	0.029	0.65	0.44	0.004	0.13	0.11	0.10	0.65	-0.24	-0.27	-0.13	0.44	6511	1.6
17	O106	D	-0.271	0.029	0.65	0.45	0.004	0.13	0.12	0.10	0.65	-0.25	-0.28	-0.12	0.45	6531	1.3
18	O106	D	-0.271	0.030	0.65	0.47	0.003	0.13	0.12	0.10	0.65	-0.25	-0.29	-0.13	0.47	6514	0.6
19	O106	D	-0.271	0.029	0.67	0.47	0.002	0.13	0.11	0.10	0.67	-0.27	-0.27	-0.13	0.47	6559	-0.7
20	O106	D	-0.271	0.030	0.66	0.43	0.003	0.13	0.11	0.10	0.66	-0.23	-0.27	-0.12	0.43	6534	3.4
1	O107	C	-0.717	0.030	0.71	0.49	0.003	0.09	0.09	0.71	0.11	-0.12	-0.32	0.49	-0.29	6942	0.3
2	O107	C	-0.717	0.031	0.75	0.46	0.004	0.09	0.07	0.75	0.08	-0.12	-0.32	0.46	-0.28	6569	-4.2
3	O107	C	-0.717	0.031	0.72	0.51	0.004	0.08	0.09	0.72	0.10	-0.14	-0.34	0.51	-0.29	6581	-3.4
4	O107	C	-0.717	0.030	0.73	0.50	0.004	0.08	0.08	0.73	0.11	-0.11	-0.34	0.50	-0.29	6542	-5.1
5	O107	C	-0.717	0.031	0.73	0.50	0.004	0.09	0.09	0.73	0.09	-0.12	-0.35	0.50	-0.28	6531	-0.4
6	O107	C	-0.717	0.031	0.74	0.47	0.004	0.08	0.08	0.74	0.10	-0.10	-0.33	0.47	-0.28	6544	-1.2
7	O107	C	-0.717	0.031	0.73	0.49	0.004	0.08	0.08	0.73	0.10	-0.12	-0.32	0.49	-0.30	6544	-3.3
8	O107	C	-0.717	0.031	0.73	0.48	0.004	0.09	0.08	0.73	0.10	-0.13	-0.32	0.48	-0.28	6560	-0.6
9	O107	C	-0.717	0.031	0.73	0.49	0.003	0.08	0.08	0.73	0.10	-0.13	-0.33	0.49	-0.28	6552	-1.0
10	O107	C	-0.717	0.031	0.72	0.48	0.003	0.09	0.09	0.72	0.10	-0.13	-0.32	0.48	-0.28	6554	-2.8
11	O107	C	-0.717	0.031	0.74	0.48	0.003	0.08	0.08	0.74	0.10	-0.12	-0.31	0.48	-0.30	6512	-1.5
12	O107	C	-0.717	0.031	0.73	0.46	0.003	0.08	0.09	0.73	0.10	-0.10	-0.31	0.46	-0.28	6542	-2.9
13	O107	C	-0.717	0.030	0.74	0.47	0.004	0.10	0.07	0.74	0.08	-0.12	-0.32	0.47	-0.29	6541	-3.7
14	O107	C	-0.717	0.031	0.73	0.48	0.003	0.08	0.09	0.73	0.10	-0.13	-0.32	0.48	-0.28	6518	0.3

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
15	O107	C	-0.717	0.031	0.72	0.46	0.003	0.09	0.08	0.72	0.10	-0.11	-0.31	0.46	-0.28	6519	0.9
16	O107	C	-0.717	0.031	0.73	0.48	0.003	0.08	0.09	0.73	0.09	-0.13	-0.34	0.48	-0.27	6511	-2.4
17	O107	C	-0.717	0.031	0.72	0.47	0.003	0.09	0.08	0.72	0.11	-0.11	-0.31	0.47	-0.28	6531	0.1
18	O107	C	-0.717	0.031	0.73	0.48	0.003	0.08	0.08	0.73	0.10	-0.10	-0.32	0.48	-0.30	6514	0.5
19	O107	C	-0.717	0.031	0.73	0.49	0.004	0.09	0.08	0.73	0.10	-0.12	-0.32	0.49	-0.30	6559	-1.6
20	O107	C	-0.717	0.031	0.73	0.49	0.002	0.08	0.09	0.73	0.10	-0.13	-0.33	0.49	-0.30	6534	-1.9
1	O108	C	0.416	0.027	0.53	0.37	0.005	0.10	0.29	0.53	0.08	-0.25	-0.16	0.37	-0.12	6942	9.9
2	O108	C	0.416	0.028	0.54	0.37	0.004	0.09	0.29	0.54	0.08	-0.21	-0.18	0.37	-0.12	6569	9.9
3	O108	C	0.416	0.028	0.53	0.36	0.004	0.10	0.28	0.53	0.09	-0.23	-0.16	0.36	-0.13	6581	9.9
4	O108	C	0.416	0.028	0.54	0.37	0.003	0.10	0.28	0.54	0.08	-0.22	-0.18	0.37	-0.12	6542	9.4
5	O108	C	0.416	0.029	0.54	0.36	0.004	0.09	0.28	0.54	0.08	-0.22	-0.17	0.36	-0.12	6531	9.9
6	O108	C	0.416	0.028	0.54	0.37	0.004	0.10	0.27	0.54	0.08	-0.24	-0.19	0.37	-0.09	6544	9.5
7	O108	C	0.416	0.028	0.55	0.35	0.004	0.09	0.28	0.55	0.08	-0.21	-0.17	0.35	-0.11	6544	9.9
8	O108	C	0.416	0.028	0.54	0.36	0.004	0.09	0.28	0.54	0.08	-0.21	-0.18	0.36	-0.13	6560	9.9
9	O108	C	0.416	0.028	0.54	0.37	0.004	0.10	0.28	0.54	0.09	-0.21	-0.18	0.37	-0.13	6552	9.9
10	O108	C	0.416	0.028	0.56	0.36	0.004	0.10	0.26	0.56	0.08	-0.24	-0.17	0.36	-0.11	6554	9.9
11	O108	C	0.416	0.028	0.55	0.37	0.004	0.10	0.27	0.55	0.08	-0.23	-0.17	0.37	-0.11	6512	9.9
12	O108	C	0.416	0.028	0.54	0.37	0.004	0.10	0.28	0.54	0.07	-0.24	-0.18	0.37	-0.10	6542	7.7
13	O108	C	0.416	0.028	0.56	0.38	0.004	0.09	0.27	0.56	0.08	-0.22	-0.20	0.38	-0.12	6541	7.8
14	O108	C	0.416	0.028	0.55	0.40	0.004	0.11	0.27	0.55	0.07	-0.23	-0.21	0.40	-0.13	6518	8.6
15	O108	C	0.416	0.028	0.55	0.38	0.003	0.10	0.27	0.55	0.08	-0.23	-0.19	0.38	-0.11	6519	9.3
16	O108	C	0.416	0.028	0.55	0.37	0.003	0.09	0.27	0.55	0.09	-0.24	-0.18	0.37	-0.11	6511	9.7
17	O108	C	0.416	0.029	0.55	0.38	0.004	0.10	0.28	0.55	0.07	-0.23	-0.19	0.38	-0.10	6531	9.9
18	O108	C	0.416	0.029	0.54	0.36	0.004	0.10	0.28	0.54	0.08	-0.23	-0.18	0.36	-0.11	6514	9.9
19	O108	C	0.416	0.029	0.54	0.37	0.003	0.09	0.28	0.54	0.08	-0.23	-0.18	0.37	-0.11	6559	9.9
20	O108	C	0.416	0.028	0.55	0.40	0.002	0.10	0.28	0.55	0.07	-0.21	-0.21	0.40	-0.14	6534	8.0
1	O109	B	-1.102	0.032	0.77	0.56	0.004	0.05	0.77	0.10	0.08	-0.22	0.56	-0.31	-0.34	6942	-8.5
2	O109	B	-1.102	0.033	0.79	0.54	0.003	0.04	0.79	0.10	0.07	-0.21	0.54	-0.32	-0.32	6569	-7.2
3	O109	B	-1.102	0.033	0.77	0.54	0.004	0.05	0.77	0.10	0.08	-0.19	0.54	-0.31	-0.33	6581	-5.5
4	O109	B	-1.102	0.033	0.78	0.55	0.003	0.04	0.78	0.11	0.07	-0.22	0.55	-0.31	-0.32	6542	-7.8
5	O109	B	-1.102	0.033	0.78	0.53	0.004	0.04	0.78	0.10	0.07	-0.20	0.53	-0.31	-0.31	6531	-4.3
6	O109	B	-1.102	0.033	0.78	0.54	0.003	0.04	0.78	0.11	0.07	-0.17	0.54	-0.34	-0.33	6544	-5.4
7	O109	B	-1.102	0.033	0.78	0.54	0.003	0.05	0.78	0.10	0.07	-0.22	0.54	-0.30	-0.32	6544	-6.2
8	O109	B	-1.102	0.033	0.78	0.55	0.004	0.04	0.78	0.10	0.07	-0.20	0.55	-0.32	-0.33	6560	-7.4
9	O109	B	-1.102	0.033	0.78	0.53	0.003	0.04	0.78	0.10	0.07	-0.19	0.53	-0.30	-0.31	6552	-5.7
10	O109	B	-1.102	0.033	0.79	0.54	0.003	0.05	0.79	0.10	0.07	-0.22	0.54	-0.31	-0.31	6554	-8.0

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
							Omitted	A	B	C	D	A	B	C	D		
11	O109	B	-1.102	0.033	0.79	0.54	0.003	0.04	0.79	0.11	0.07	-0.19	0.54	-0.33	-0.32	6512	-6.7
12	O109	B	-1.102	0.033	0.78	0.55	0.004	0.04	0.78	0.10	0.07	-0.20	0.55	-0.32	-0.33	6542	-7.5
13	O109	B	-1.102	0.033	0.78	0.53	0.003	0.04	0.78	0.11	0.07	-0.20	0.53	-0.31	-0.31	6541	-8.1
14	O109	B	-1.102	0.034	0.78	0.54	0.003	0.04	0.78	0.11	0.07	-0.19	0.54	-0.33	-0.31	6518	-5.9
15	O109	B	-1.102	0.033	0.78	0.52	0.003	0.04	0.78	0.11	0.07	-0.19	0.52	-0.31	-0.30	6519	-3.7
16	O109	B	-1.102	0.033	0.78	0.56	0.004	0.04	0.78	0.10	0.08	-0.20	0.56	-0.32	-0.34	6511	-6.6
17	O109	B	-1.102	0.033	0.78	0.54	0.004	0.04	0.78	0.10	0.07	-0.20	0.54	-0.31	-0.32	6531	-5.8
18	O109	B	-1.102	0.034	0.78	0.55	0.004	0.04	0.78	0.11	0.07	-0.22	0.55	-0.32	-0.31	6514	-4.1
19	O109	B	-1.102	0.033	0.78	0.55	0.002	0.04	0.78	0.11	0.07	-0.20	0.55	-0.33	-0.32	6559	-7.1
20	O109	B	-1.102	0.034	0.78	0.55	0.002	0.04	0.78	0.11	0.07	-0.21	0.55	-0.33	-0.32	6534	-5.1
1	O110	D	0.470	0.027	0.52	0.48	0.005	0.19	0.17	0.11	0.52	-0.23	-0.18	-0.24	0.48	6942	5.0
2	O110	D	0.470	0.028	0.52	0.49	0.003	0.19	0.18	0.11	0.52	-0.23	-0.18	-0.26	0.49	6569	2.2
3	O110	D	0.470	0.028	0.53	0.48	0.005	0.19	0.17	0.10	0.53	-0.23	-0.19	-0.25	0.48	6581	2.5
4	O110	D	0.470	0.028	0.52	0.48	0.004	0.19	0.19	0.10	0.52	-0.22	-0.19	-0.24	0.48	6542	0.6
5	O110	D	0.470	0.029	0.52	0.46	0.005	0.19	0.18	0.10	0.52	-0.21	-0.17	-0.24	0.46	6531	6.3
6	O110	D	0.470	0.028	0.52	0.48	0.003	0.20	0.18	0.10	0.52	-0.21	-0.21	-0.23	0.48	6544	2.8
7	O110	D	0.470	0.028	0.52	0.48	0.005	0.19	0.19	0.10	0.52	-0.24	-0.18	-0.24	0.48	6544	3.6
8	O110	D	0.470	0.028	0.52	0.48	0.004	0.20	0.18	0.10	0.52	-0.23	-0.18	-0.25	0.48	6560	1.7
9	O110	D	0.470	0.028	0.53	0.51	0.004	0.19	0.18	0.10	0.53	-0.22	-0.21	-0.26	0.51	6552	0.5
10	O110	D	0.470	0.028	0.52	0.49	0.004	0.20	0.18	0.10	0.52	-0.22	-0.21	-0.24	0.49	6554	0.9
11	O110	D	0.470	0.028	0.53	0.47	0.004	0.19	0.18	0.09	0.53	-0.23	-0.19	-0.24	0.47	6512	1.9
12	O110	D	0.470	0.028	0.51	0.49	0.004	0.19	0.19	0.11	0.51	-0.23	-0.17	-0.26	0.49	6542	0.2
13	O110	D	0.470	0.028	0.53	0.49	0.005	0.20	0.17	0.10	0.53	-0.24	-0.20	-0.24	0.49	6541	-1.1
14	O110	D	0.470	0.028	0.51	0.49	0.004	0.19	0.19	0.10	0.51	-0.23	-0.19	-0.24	0.49	6518	2.0
15	O110	D	0.470	0.028	0.52	0.47	0.004	0.19	0.18	0.10	0.52	-0.22	-0.17	-0.26	0.47	6519	4.6
16	O110	D	0.470	0.028	0.52	0.48	0.004	0.20	0.18	0.10	0.52	-0.23	-0.17	-0.25	0.48	6511	2.9
17	O110	D	0.470	0.029	0.52	0.48	0.005	0.20	0.18	0.10	0.52	-0.23	-0.19	-0.23	0.48	6531	3.3
18	O110	D	0.470	0.029	0.53	0.48	0.003	0.19	0.19	0.10	0.53	-0.22	-0.20	-0.24	0.48	6514	4.1
19	O110	D	0.470	0.029	0.53	0.49	0.003	0.20	0.17	0.10	0.53	-0.23	-0.20	-0.24	0.49	6559	2.3
20	O110	D	0.470	0.028	0.53	0.48	0.004	0.20	0.18	0.10	0.53	-0.23	-0.21	-0.23	0.48	6534	4.0
1	O111	B	-0.714	0.030	0.72	0.45	0.006	0.09	0.72	0.12	0.06	-0.24	0.45	-0.24	-0.21	6942	-2.6
2	O111	B	-0.714	0.031	0.74	0.47	0.005	0.09	0.74	0.11	0.06	-0.27	0.47	-0.24	-0.21	6569	-4.5
3	O111	B	-0.714	0.031	0.73	0.49	0.004	0.10	0.73	0.11	0.05	-0.27	0.49	-0.26	-0.21	6581	-4.7
4	O111	B	-0.714	0.030	0.72	0.46	0.004	0.09	0.72	0.13	0.06	-0.25	0.46	-0.24	-0.21	6542	-3.7
5	O111	B	-0.714	0.031	0.72	0.46	0.004	0.09	0.72	0.13	0.06	-0.26	0.46	-0.25	-0.20	6531	-0.8
6	O111	B	-0.714	0.031	0.73	0.46	0.004	0.09	0.73	0.12	0.06	-0.26	0.46	-0.24	-0.21	6544	-0.2

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
7	O111	B	-0.714	0.031	0.72	0.47	0.004	0.09	0.72	0.13	0.07	-0.25	0.47	-0.25	-0.21	6544	-1.6
8	O111	B	-0.714	0.031	0.73	0.46	0.004	0.09	0.73	0.13	0.06	-0.25	0.46	-0.26	-0.19	6560	-3.4
9	O111	B	-0.714	0.031	0.72	0.47	0.004	0.09	0.72	0.13	0.06	-0.26	0.47	-0.26	-0.19	6552	-0.8
10	O111	B	-0.714	0.031	0.72	0.44	0.004	0.09	0.72	0.13	0.06	-0.26	0.44	-0.23	-0.18	6554	-0.7
11	O111	B	-0.714	0.031	0.72	0.46	0.005	0.09	0.72	0.13	0.06	-0.25	0.46	-0.25	-0.20	6512	-1.3
12	O111	B	-0.714	0.031	0.72	0.45	0.005	0.09	0.72	0.13	0.06	-0.26	0.45	-0.23	-0.19	6542	-1.8
13	O111	B	-0.714	0.030	0.73	0.44	0.006	0.09	0.73	0.12	0.06	-0.25	0.44	-0.24	-0.19	6541	-3.4
14	O111	B	-0.714	0.031	0.72	0.44	0.005	0.09	0.72	0.13	0.06	-0.25	0.44	-0.24	-0.17	6518	0.7
15	O111	B	-0.714	0.031	0.72	0.44	0.004	0.09	0.72	0.12	0.06	-0.25	0.44	-0.22	-0.21	6519	0.6
16	O111	B	-0.714	0.031	0.72	0.44	0.005	0.09	0.72	0.13	0.06	-0.24	0.44	-0.24	-0.20	6511	-0.5
17	O111	B	-0.714	0.031	0.72	0.46	0.005	0.09	0.72	0.13	0.06	-0.25	0.46	-0.24	-0.21	6531	-1.4
18	O111	B	-0.714	0.031	0.73	0.46	0.004	0.09	0.73	0.12	0.06	-0.26	0.46	-0.23	-0.20	6514	-0.3
19	O111	B	-0.714	0.031	0.72	0.46	0.003	0.09	0.72	0.13	0.06	-0.26	0.46	-0.25	-0.18	6559	-1.8
20	O111	B	-0.714	0.031	0.73	0.43	0.003	0.09	0.73	0.12	0.06	-0.23	0.43	-0.25	-0.18	6534	0.5
1	O112	B	0.089	0.028	0.58	0.54	0.005	0.13	0.58	0.17	0.12	-0.26	0.54	-0.27	-0.22	6942	-5.1
2	O112	B	0.089	0.029	0.60	0.55	0.004	0.11	0.60	0.16	0.13	-0.27	0.55	-0.27	-0.24	6569	-5.6
3	O112	B	0.089	0.029	0.56	0.54	0.003	0.11	0.56	0.18	0.14	-0.26	0.54	-0.26	-0.23	6581	-3.0
4	O112	B	0.089	0.028	0.59	0.53	0.004	0.12	0.59	0.17	0.13	-0.26	0.53	-0.25	-0.23	6542	-5.0
5	O112	B	0.089	0.029	0.58	0.56	0.004	0.13	0.58	0.16	0.12	-0.28	0.56	-0.27	-0.23	6531	-3.4
6	O112	B	0.089	0.029	0.60	0.55	0.003	0.11	0.60	0.16	0.13	-0.26	0.55	-0.28	-0.23	6544	-4.0
7	O112	B	0.089	0.029	0.59	0.55	0.004	0.12	0.59	0.16	0.13	-0.27	0.55	-0.27	-0.23	6544	-4.8
8	O112	B	0.089	0.028	0.60	0.54	0.003	0.12	0.60	0.16	0.12	-0.26	0.54	-0.27	-0.24	6560	-5.2
9	O112	B	0.089	0.029	0.60	0.55	0.004	0.11	0.60	0.16	0.13	-0.26	0.55	-0.28	-0.24	6552	-4.2
10	O112	B	0.089	0.028	0.61	0.57	0.003	0.11	0.61	0.15	0.13	-0.26	0.57	-0.28	-0.27	6554	-7.9
11	O112	B	0.089	0.029	0.61	0.56	0.004	0.12	0.61	0.15	0.12	-0.28	0.56	-0.30	-0.22	6512	-6.1
12	O112	B	0.089	0.028	0.59	0.53	0.003	0.12	0.59	0.17	0.13	-0.24	0.53	-0.27	-0.23	6542	-5.5
13	O112	B	0.089	0.028	0.60	0.55	0.004	0.12	0.60	0.17	0.11	-0.26	0.55	-0.29	-0.22	6541	-8.2
14	O112	B	0.089	0.029	0.59	0.56	0.004	0.12	0.59	0.16	0.13	-0.27	0.56	-0.28	-0.24	6518	-4.2
15	O112	B	0.089	0.029	0.59	0.55	0.004	0.12	0.59	0.16	0.13	-0.28	0.55	-0.27	-0.23	6519	-5.4
16	O112	B	0.089	0.029	0.57	0.53	0.003	0.12	0.57	0.17	0.14	-0.26	0.53	-0.26	-0.23	6511	-2.5
17	O112	B	0.089	0.029	0.60	0.56	0.005	0.11	0.60	0.16	0.12	-0.26	0.56	-0.29	-0.23	6531	-4.6
18	O112	B	0.089	0.029	0.59	0.53	0.004	0.12	0.59	0.16	0.13	-0.25	0.53	-0.26	-0.23	6514	-1.8
19	O112	B	0.089	0.029	0.61	0.55	0.003	0.11	0.61	0.16	0.12	-0.26	0.55	-0.29	-0.23	6559	-4.8
20	O112	B	0.089	0.029	0.60	0.54	0.002	0.11	0.60	0.16	0.12	-0.27	0.54	-0.27	-0.24	6534	-3.3
1	O113	C	-0.332	0.028	0.65	0.52	0.005	0.15	0.10	0.65	0.09	-0.21	-0.32	0.52	-0.24	6942	-4.9
2	O113	C	-0.332	0.029	0.67	0.52	0.005	0.15	0.09	0.67	0.09	-0.21	-0.32	0.52	-0.25	6569	-3.5

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
3	O113	C	-0.332	0.029	0.68	0.51	0.005	0.14	0.09	0.68	0.09	-0.20	-0.30	0.51	-0.26	6581	-2.9
4	O113	C	-0.332	0.029	0.66	0.50	0.004	0.15	0.09	0.66	0.09	-0.17	-0.31	0.50	-0.26	6542	-3.7
5	O113	C	-0.332	0.030	0.68	0.52	0.005	0.14	0.09	0.68	0.09	-0.20	-0.32	0.52	-0.26	6531	-1.9
6	O113	C	-0.332	0.030	0.67	0.50	0.004	0.15	0.09	0.67	0.09	-0.20	-0.31	0.50	-0.25	6544	-1.4
7	O113	C	-0.332	0.029	0.66	0.51	0.006	0.15	0.09	0.66	0.10	-0.19	-0.31	0.51	-0.26	6544	-0.9
8	O113	C	-0.332	0.029	0.66	0.51	0.003	0.15	0.10	0.66	0.09	-0.19	-0.31	0.51	-0.26	6560	-3.7
9	O113	C	-0.332	0.030	0.66	0.50	0.004	0.15	0.10	0.66	0.09	-0.18	-0.31	0.50	-0.26	6552	0.2
10	O113	C	-0.332	0.029	0.65	0.51	0.004	0.15	0.10	0.65	0.10	-0.19	-0.31	0.51	-0.25	6554	-1.9
11	O113	C	-0.332	0.030	0.68	0.49	0.005	0.14	0.09	0.68	0.08	-0.19	-0.32	0.49	-0.23	6512	-2.2
12	O113	C	-0.332	0.029	0.66	0.50	0.004	0.15	0.10	0.66	0.09	-0.19	-0.32	0.50	-0.23	6542	-3.6
13	O113	C	-0.332	0.029	0.66	0.51	0.006	0.14	0.09	0.66	0.10	-0.18	-0.32	0.51	-0.25	6541	-4.4
14	O113	C	-0.332	0.030	0.66	0.51	0.004	0.15	0.09	0.66	0.10	-0.20	-0.31	0.51	-0.27	6518	-0.5
15	O113	C	-0.332	0.030	0.66	0.50	0.004	0.15	0.10	0.66	0.09	-0.19	-0.32	0.50	-0.24	6519	-0.2
16	O113	C	-0.332	0.030	0.65	0.51	0.004	0.15	0.10	0.65	0.10	-0.18	-0.31	0.51	-0.26	6511	-1.1
17	O113	C	-0.332	0.030	0.67	0.51	0.006	0.15	0.09	0.67	0.09	-0.19	-0.32	0.51	-0.24	6531	-1.2
18	O113	C	-0.332	0.030	0.64	0.51	0.004	0.16	0.09	0.64	0.10	-0.19	-0.32	0.51	-0.25	6514	0.3
19	O113	C	-0.332	0.030	0.66	0.52	0.004	0.15	0.10	0.66	0.09	-0.21	-0.32	0.52	-0.26	6559	-3.3
20	O113	C	-0.332	0.030	0.66	0.50	0.004	0.15	0.09	0.66	0.10	-0.19	-0.30	0.50	-0.27	6534	0.1
1	O114	C	0.189	0.028	0.58	0.47	0.008	0.13	0.15	0.58	0.14	-0.18	-0.20	0.47	-0.27	6942	0.7
2	O114	C	0.189	0.028	0.58	0.49	0.008	0.13	0.15	0.58	0.14	-0.19	-0.20	0.49	-0.29	6569	-0.1
3	O114	C	0.189	0.028	0.57	0.49	0.007	0.14	0.15	0.57	0.13	-0.19	-0.21	0.49	-0.29	6581	-0.5
4	O114	C	0.189	0.028	0.58	0.49	0.007	0.13	0.15	0.58	0.13	-0.20	-0.23	0.49	-0.26	6542	-2.8
5	O114	C	0.189	0.029	0.58	0.47	0.008	0.13	0.16	0.58	0.13	-0.17	-0.20	0.47	-0.28	6531	3.1
6	O114	C	0.189	0.029	0.58	0.47	0.007	0.13	0.14	0.58	0.14	-0.19	-0.19	0.47	-0.27	6544	1.4
7	O114	C	0.189	0.028	0.59	0.49	0.007	0.13	0.15	0.59	0.13	-0.20	-0.20	0.49	-0.28	6544	0.0
8	O114	C	0.189	0.028	0.58	0.49	0.006	0.14	0.14	0.58	0.13	-0.19	-0.20	0.49	-0.30	6560	-1.4
9	O114	C	0.189	0.029	0.59	0.49	0.007	0.13	0.14	0.59	0.14	-0.20	-0.20	0.49	-0.29	6552	-0.1
10	O114	C	0.189	0.028	0.56	0.47	0.008	0.14	0.16	0.56	0.14	-0.18	-0.20	0.47	-0.26	6554	1.7
11	O114	C	0.189	0.029	0.58	0.48	0.008	0.13	0.15	0.58	0.14	-0.18	-0.20	0.48	-0.29	6512	0.9
12	O114	C	0.189	0.028	0.57	0.47	0.009	0.14	0.14	0.57	0.14	-0.19	-0.18	0.47	-0.28	6542	-0.6
13	O114	C	0.189	0.028	0.59	0.48	0.007	0.13	0.15	0.59	0.13	-0.19	-0.21	0.48	-0.27	6541	-1.9
14	O114	C	0.189	0.029	0.57	0.48	0.006	0.13	0.15	0.57	0.14	-0.19	-0.20	0.48	-0.27	6518	1.5
15	O114	C	0.189	0.029	0.56	0.49	0.007	0.14	0.15	0.56	0.15	-0.19	-0.18	0.49	-0.30	6519	1.3
16	O114	C	0.189	0.028	0.57	0.48	0.007	0.13	0.16	0.57	0.13	-0.19	-0.20	0.48	-0.28	6511	0.9
17	O114	C	0.189	0.029	0.58	0.48	0.010	0.13	0.15	0.58	0.13	-0.18	-0.21	0.48	-0.28	6531	1.2
18	O114	C	0.189	0.029	0.58	0.47	0.008	0.13	0.14	0.58	0.14	-0.18	-0.20	0.47	-0.26	6514	3.4

Form	Seq	Key	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting				Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)	
							Omitted	A	B	C	D	A	B	C			D
19	O114	C	0.189	0.029	0.58	0.48	0.006	0.13	0.15	0.58	0.14	-0.18	-0.19	0.48	-0.30	6559	0.7
20	O114	C	0.189	0.029	0.58	0.47	0.006	0.14	0.15	0.58	0.13	-0.20	-0.19	0.47	-0.28	6534	1.7

Appendix Y:

**2005 Common Grade 5 Constructed Response Statistics for
Reading**

2005 Common Grade 5 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	O032	1.0274	0.0164	1.54	0.67	0.11	0.37	0.34	0.16	0.017	-0.17	0.32	0.35	0.35	7273	-1.9
2	O032	1.0274	0.0168	1.63	0.62	0.09	0.37	0.36	0.18	0.002	-0.25	0.26	0.37	0.37	6810	-2.0
3	O032	1.0274	0.0168	1.62	0.62	0.10	0.36	0.37	0.18	0.003	-0.21	0.25	0.36	0.36	6803	-2.0
4	O032	1.0274	0.0169	1.63	0.60	0.09	0.37	0.38	0.17	0.003	-0.25	0.27	0.34	0.34	6785	-1.2
5	O032	1.0274	0.0169	1.62	0.60	0.09	0.36	0.37	0.17	0.002	-0.22	0.26	0.34	0.34	6770	-0.9
6	O032	1.0274	0.0169	1.63	0.62	0.09	0.37	0.37	0.18	0.004	-0.24	0.27	0.35	0.35	6774	-3.4
7	O032	1.0274	0.0168	1.63	0.61	0.09	0.35	0.38	0.18	0.003	-0.24	0.27	0.34	0.34	6783	-1.5
8	O032	1.0274	0.0167	1.63	0.62	0.09	0.35	0.38	0.17	0.002	-0.25	0.26	0.36	0.36	6819	-4.2
9	O032	1.0274	0.0169	1.64	0.60	0.08	0.36	0.39	0.17	0.002	-0.25	0.25	0.35	0.35	6795	-3.0
10	O032	1.0274	0.0169	1.62	0.62	0.09	0.36	0.37	0.17	0.002	-0.24	0.28	0.35	0.35	6790	-2.8
11	O032	1.0274	0.0169	1.64	0.62	0.09	0.36	0.37	0.18	0.002	-0.27	0.26	0.36	0.36	6791	-2.2
12	O032	1.0274	0.0169	1.62	0.62	0.09	0.36	0.37	0.18	0.004	-0.25	0.27	0.35	0.35	6773	-1.8
13	O032	1.0274	0.0169	1.64	0.60	0.08	0.37	0.37	0.18	0.003	-0.25	0.26	0.35	0.35	6771	-1.6
14	O032	1.0274	0.0170	1.64	0.60	0.08	0.36	0.37	0.18	0.003	-0.24	0.27	0.33	0.33	6769	-0.2
15	O032	1.0274	0.0169	1.64	0.61	0.09	0.37	0.36	0.18	0.002	-0.23	0.26	0.35	0.35	6750	-2.4
16	O032	1.0274	0.0169	1.66	0.61	0.08	0.35	0.38	0.18	0.004	-0.26	0.26	0.35	0.35	6758	-2.0
17	O032	1.0274	0.0170	1.63	0.61	0.09	0.37	0.36	0.18	0.002	-0.25	0.26	0.36	0.36	6777	-0.7
18	O032	1.0274	0.0170	1.65	0.61	0.09	0.36	0.37	0.18	0.004	-0.23	0.25	0.35	0.35	6730	-1.1
19	O032	1.0274	0.0169	1.63	0.60	0.09	0.36	0.37	0.18	0.002	-0.22	0.24	0.35	0.35	6734	-0.2
20	O032	1.0274	0.0170	1.62	0.62	0.09	0.36	0.37	0.17	0.004	-0.21	0.28	0.34	0.34	6707	-3.0
1	O051	0.4170	0.0156	1.84	0.70	0.09	0.25	0.32	0.32	0.017	-0.48	-0.24	0.17	0.46	7273	-1.5
2	O051	0.4170	0.0163	1.94	0.65	0.07	0.24	0.35	0.33	0.002	-0.45	-0.34	0.12	0.45	6810	-0.1
3	O051	0.4170	0.0162	1.95	0.65	0.07	0.24	0.34	0.34	0.003	-0.49	-0.29	0.11	0.44	6803	0.6
4	O051	0.4170	0.0163	1.96	0.64	0.07	0.25	0.34	0.35	0.003	-0.44	-0.33	0.11	0.45	6785	1.2
5	O051	0.4170	0.0162	1.95	0.66	0.07	0.25	0.34	0.34	0.002	-0.48	-0.32	0.13	0.45	6770	-2.8
6	O051	0.4170	0.0164	1.94	0.66	0.07	0.25	0.34	0.34	0.004	-0.47	-0.33	0.15	0.44	6774	-0.7
7	O051	0.4170	0.0161	1.94	0.66	0.07	0.24	0.34	0.34	0.003	-0.48	-0.31	0.12	0.45	6783	-3.1
8	O051	0.4170	0.0161	1.97	0.65	0.07	0.23	0.35	0.35	0.002	-0.47	-0.33	0.11	0.45	6819	-3.3
9	O051	0.4170	0.0162	1.97	0.65	0.06	0.24	0.35	0.35	0.002	-0.43	-0.36	0.11	0.45	6795	-1.2
10	O051	0.4170	0.0163	1.94	0.65	0.08	0.24	0.34	0.34	0.002	-0.48	-0.31	0.13	0.44	6790	1.2
11	O051	0.4170	0.0162	1.95	0.64	0.07	0.25	0.34	0.34	0.002	-0.46	-0.32	0.11	0.45	6791	1.5
12	O051	0.4170	0.0163	1.97	0.65	0.07	0.23	0.34	0.35	0.004	-0.46	-0.32	0.11	0.45	6773	2.3
13	O051	0.4170	0.0163	1.95	0.64	0.07	0.24	0.34	0.34	0.003	-0.45	-0.31	0.11	0.44	6771	1.7
14	O051	0.4170	0.0164	1.95	0.64	0.07	0.24	0.34	0.34	0.003	-0.45	-0.32	0.12	0.43	6769	2.5

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
15	O051	0.4170	0.0164	1.97	0.64	0.07	0.24	0.34	0.35	0.002	-0.45	-0.33	0.10	0.45	6750	-1.7
16	O051	0.4170	0.0162	1.97	0.64	0.07	0.23	0.35	0.35	0.004	-0.44	-0.31	0.10	0.44	6758	0.2
17	O051	0.4170	0.0166	1.94	0.64	0.07	0.25	0.34	0.34	0.002	-0.46	-0.31	0.11	0.45	6777	5.2
18	O051	0.4170	0.0166	1.97	0.66	0.07	0.23	0.34	0.35	0.004	-0.46	-0.31	0.11	0.45	6730	1.6
19	O051	0.4170	0.0163	1.94	0.64	0.07	0.24	0.36	0.33	0.002	-0.48	-0.31	0.14	0.42	6734	1.3
20	O051	0.4170	0.0166	1.94	0.66	0.07	0.24	0.35	0.34	0.004	-0.49	-0.30	0.13	0.44	6707	1.9
1	O125	0.2532	0.0182	1.90	0.68	0.04	0.19	0.54	0.21	0.017	-0.35	-0.38	0.27	0.34	7273	9.9
2	O125	0.2532	0.0191	1.97	0.63	0.03	0.18	0.57	0.22	0.002	-0.37	-0.43	0.17	0.36	6810	4.5
3	O125	0.2532	0.0191	1.98	0.62	0.03	0.18	0.56	0.23	0.003	-0.38	-0.40	0.17	0.35	6803	4.8
4	O125	0.2532	0.0191	1.98	0.60	0.03	0.18	0.58	0.21	0.003	-0.33	-0.44	0.19	0.33	6785	9.9
5	O125	0.2532	0.0192	1.98	0.63	0.04	0.17	0.57	0.22	0.002	-0.40	-0.41	0.18	0.35	6770	9.9
6	O125	0.2532	0.0193	1.99	0.64	0.03	0.17	0.56	0.23	0.004	-0.38	-0.43	0.19	0.35	6774	9.9
7	O125	0.2532	0.0191	1.99	0.61	0.03	0.17	0.57	0.23	0.003	-0.37	-0.42	0.18	0.34	6783	2.6
8	O125	0.2532	0.0191	1.99	0.62	0.03	0.18	0.56	0.23	0.002	-0.35	-0.43	0.16	0.36	6819	5.4
9	O125	0.2532	0.0191	2.00	0.62	0.03	0.17	0.58	0.22	0.002	-0.34	-0.45	0.19	0.34	6795	9.9
10	O125	0.2532	0.0191	1.99	0.63	0.03	0.17	0.57	0.22	0.002	-0.38	-0.43	0.20	0.34	6790	9.9
11	O125	0.2532	0.0191	2.01	0.61	0.03	0.17	0.55	0.24	0.002	-0.35	-0.43	0.15	0.36	6791	9.9
12	O125	0.2532	0.0192	2.00	0.61	0.03	0.17	0.57	0.23	0.004	-0.35	-0.41	0.16	0.35	6773	0.1
13	O125	0.2532	0.0192	1.98	0.59	0.03	0.17	0.58	0.22	0.003	-0.33	-0.41	0.18	0.33	6771	4.5
14	O125	0.2532	0.0192	2.00	0.62	0.03	0.16	0.58	0.23	0.003	-0.38	-0.42	0.18	0.34	6769	9.9
15	O125	0.2532	0.0193	1.98	0.62	0.03	0.17	0.58	0.21	0.002	-0.38	-0.43	0.21	0.32	6750	9.9
16	O125	0.2532	0.0192	2.00	0.61	0.03	0.16	0.58	0.23	0.004	-0.35	-0.40	0.16	0.34	6758	0.4
17	O125	0.2532	0.0194	1.98	0.61	0.03	0.17	0.58	0.22	0.002	-0.36	-0.42	0.18	0.34	6777	0.0
18	O125	0.2532	0.0195	2.00	0.63	0.03	0.16	0.57	0.23	0.004	-0.36	-0.41	0.17	0.35	6730	9.9
19	O125	0.2532	0.0193	1.99	0.61	0.03	0.17	0.57	0.23	0.002	-0.35	-0.43	0.17	0.35	6734	9.9
20	O125	0.2532	0.0195	1.98	0.64	0.03	0.17	0.57	0.23	0.004	-0.38	-0.43	0.21	0.34	6707	9.9
1	O133	1.8393	0.0186	1.14	0.52	0.18	0.52	0.25	0.04	0.017	-0.33	-0.00	0.32	0.20	7273	9.9
2	O133	1.8393	0.0188	1.20	0.50	0.16	0.53	0.26	0.05	0.002	-0.38	-0.09	0.32	0.21	6810	9.9
3	O133	1.8393	0.0189	1.22	0.49	0.15	0.52	0.28	0.05	0.003	-0.37	-0.08	0.32	0.20	6803	9.9
4	O133	1.8393	0.0189	1.20	0.46	0.15	0.53	0.27	0.04	0.003	-0.35	-0.08	0.31	0.18	6785	9.9
5	O133	1.8393	0.0189	1.20	0.48	0.16	0.53	0.26	0.05	0.002	-0.37	-0.07	0.30	0.22	6770	9.9
6	O133	1.8393	0.0188	1.21	0.49	0.15	0.53	0.27	0.05	0.004	-0.37	-0.07	0.31	0.20	6774	-9.9
7	O133	1.8393	0.0189	1.21	0.49	0.16	0.53	0.27	0.05	0.003	-0.36	-0.08	0.31	0.21	6783	9.9
8	O133	1.8393	0.0188	1.21	0.47	0.15	0.54	0.26	0.05	0.002	-0.35	-0.09	0.30	0.21	6819	9.9
9	O133	1.8393	0.0189	1.21	0.47	0.15	0.53	0.26	0.05	0.002	-0.34	-0.10	0.30	0.22	6795	9.9
10	O133	1.8393	0.0189	1.18	0.48	0.16	0.54	0.26	0.04	0.002	-0.37	-0.06	0.31	0.19	6790	9.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
11	O133	1.8393	0.0189	1.21	0.49	0.15	0.53	0.27	0.05	0.002	-0.37	-0.09	0.32	0.20	6791	9.9
12	O133	1.8393	0.0189	1.21	0.47	0.16	0.52	0.27	0.05	0.004	-0.36	-0.07	0.30	0.20	6773	9.9
13	O133	1.8393	0.0189	1.20	0.49	0.15	0.54	0.26	0.05	0.003	-0.36	-0.08	0.32	0.20	6771	9.9
14	O133	1.8393	0.0189	1.22	0.48	0.15	0.52	0.28	0.05	0.003	-0.37	-0.07	0.31	0.19	6769	9.9
15	O133	1.8393	0.0189	1.20	0.46	0.15	0.54	0.26	0.05	0.002	-0.34	-0.08	0.29	0.21	6750	9.9
16	O133	1.8393	0.0189	1.21	0.49	0.14	0.54	0.27	0.05	0.004	-0.36	-0.08	0.31	0.20	6758	9.9
17	O133	1.8393	0.0187	1.20	0.48	0.16	0.53	0.26	0.05	0.002	-0.35	-0.10	0.32	0.21	6777	-9.9
18	O133	1.8393	0.0188	1.22	0.50	0.15	0.52	0.27	0.05	0.004	-0.36	-0.08	0.33	0.20	6730	-9.9
19	O133	1.8393	0.0189	1.20	0.47	0.15	0.53	0.27	0.05	0.002	-0.35	-0.09	0.32	0.19	6734	9.9
20	O133	1.8393	0.0189	1.20	0.49	0.16	0.53	0.26	0.05	0.004	-0.37	-0.07	0.31	0.20	6707	9.9

Appendix Z:

**2005 Common Grade 8 Constructed Response Statistics for
Reading**

2005 Common Grade 8 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	O031	0.2414	0.0150	2.01	0.68	0.05	0.20	0.40	0.34	0.014	-0.38	-0.33	0.11	0.44	7853	-5.2
2	O031	0.2414	0.0155	2.10	0.61	0.03	0.18	0.43	0.36	0.003	-0.35	-0.39	0.05	0.42	7382	-5.0
3	O031	0.2414	0.0154	2.08	0.63	0.04	0.19	0.41	0.36	0.005	-0.34	-0.38	0.05	0.43	7363	-6.5
4	O031	0.2414	0.0155	2.10	0.62	0.03	0.19	0.42	0.36	0.003	-0.36	-0.38	0.03	0.43	7383	-5.6
5	O031	0.2414	0.0154	2.09	0.64	0.04	0.19	0.42	0.35	0.004	-0.36	-0.39	0.04	0.45	7364	-9.9
6	O031	0.2414	0.0154	2.10	0.63	0.04	0.18	0.41	0.37	0.005	-0.36	-0.38	0.05	0.44	7361	-9.4
7	O031	0.2414	0.0156	2.09	0.63	0.04	0.19	0.41	0.36	0.003	-0.39	-0.37	0.05	0.43	7378	-6.0
8	O031	0.2414	0.0154	2.09	0.63	0.04	0.18	0.42	0.35	0.003	-0.38	-0.37	0.05	0.43	7374	-7.5
9	O031	0.2414	0.0154	2.11	0.61	0.04	0.18	0.41	0.37	0.004	-0.36	-0.37	0.03	0.43	7385	-4.7
10	O031	0.2414	0.0154	2.10	0.63	0.04	0.18	0.42	0.36	0.004	-0.38	-0.36	0.05	0.43	7361	-9.6
11	O031	0.2414	0.0156	2.09	0.63	0.03	0.19	0.41	0.36	0.004	-0.36	-0.38	0.04	0.44	7350	-5.8
12	O031	0.2414	0.0154	2.10	0.63	0.04	0.19	0.42	0.36	0.005	-0.37	-0.36	0.04	0.43	7341	-7.1
13	O031	0.2414	0.0154	2.07	0.63	0.04	0.19	0.42	0.35	0.004	-0.38	-0.37	0.06	0.43	7315	-8.1
14	O031	0.2414	0.0155	2.08	0.61	0.04	0.19	0.42	0.35	0.003	-0.38	-0.36	0.05	0.42	7303	-5.6
15	O031	0.2414	0.0155	2.09	0.62	0.04	0.18	0.43	0.35	0.004	-0.35	-0.39	0.07	0.42	7292	-8.8
16	O031	0.2414	0.0155	2.08	0.62	0.04	0.19	0.42	0.35	0.003	-0.36	-0.38	0.04	0.43	7295	-6.0
17	O031	0.2414	0.0161	2.09	0.63	0.03	0.19	0.42	0.35	0.004	-0.34	-0.40	0.05	0.44	7314	-5.1
18	O031	0.2414	0.0159	2.08	0.62	0.03	0.19	0.43	0.35	0.004	-0.35	-0.38	0.05	0.43	7287	-5.8
19	O031	0.2414	0.0160	2.09	0.62	0.04	0.19	0.42	0.35	0.004	-0.37	-0.37	0.05	0.43	7333	-4.1
20	O031	0.2414	0.0160	2.09	0.61	0.04	0.18	0.43	0.35	0.004	-0.36	-0.38	0.05	0.42	7347	-3.0
1	O050	0.1516	0.0147	2.18	0.68	0.08	0.09	0.35	0.47	0.014	-0.42	-0.23	-0.05	0.51	7853	2.6
2	O050	0.1516	0.0151	2.27	0.63	0.07	0.08	0.35	0.49	0.003	-0.44	-0.24	-0.11	0.49	7382	-0.2
3	O050	0.1516	0.0150	2.25	0.64	0.08	0.08	0.35	0.49	0.005	-0.42	-0.25	-0.11	0.50	7363	0.2
4	O050	0.1516	0.0151	2.26	0.64	0.07	0.08	0.35	0.49	0.003	-0.44	-0.24	-0.12	0.50	7383	-1.1
5	O050	0.1516	0.0150	2.27	0.64	0.07	0.08	0.34	0.50	0.004	-0.43	-0.27	-0.11	0.50	7364	-3.6
6	O050	0.1516	0.0150	2.25	0.63	0.07	0.08	0.36	0.48	0.005	-0.41	-0.27	-0.09	0.49	7361	-2.3
7	O050	0.1516	0.0154	2.26	0.64	0.07	0.08	0.34	0.50	0.003	-0.45	-0.27	-0.09	0.49	7378	-0.2
8	O050	0.1516	0.0151	2.26	0.64	0.07	0.09	0.35	0.50	0.003	-0.45	-0.26	-0.08	0.48	7374	-0.5
9	O050	0.1516	0.0150	2.25	0.63	0.07	0.08	0.36	0.49	0.004	-0.43	-0.25	-0.11	0.49	7385	0.1
10	O050	0.1516	0.0150	2.27	0.64	0.07	0.08	0.35	0.50	0.004	-0.45	-0.22	-0.12	0.50	7361	-3.4
11	O050	0.1516	0.0152	2.27	0.64	0.07	0.09	0.35	0.50	0.004	-0.43	-0.27	-0.11	0.50	7350	-1.0
12	O050	0.1516	0.0151	2.26	0.63	0.07	0.08	0.35	0.49	0.005	-0.42	-0.24	-0.11	0.49	7341	-0.0
13	O050	0.1516	0.0150	2.27	0.65	0.07	0.08	0.35	0.50	0.004	-0.45	-0.26	-0.10	0.50	7315	-1.7
14	O050	0.1516	0.0151	2.28	0.64	0.07	0.08	0.35	0.50	0.003	-0.44	-0.26	-0.11	0.50	7303	-1.8

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
15	O050	0.1516	0.0151	2.29	0.63	0.07	0.08	0.34	0.51	0.004	-0.43	-0.25	-0.12	0.49	7292	-2.9
16	O050	0.1516	0.0152	2.26	0.62	0.07	0.08	0.34	0.50	0.003	-0.40	-0.28	-0.12	0.50	7295	0.4
17	O050	0.1516	0.0159	2.25	0.64	0.07	0.09	0.35	0.49	0.004	-0.43	-0.26	-0.10	0.50	7314	0.9
18	O050	0.1516	0.0158	2.25	0.64	0.07	0.08	0.35	0.49	0.004	-0.42	-0.27	-0.10	0.50	7287	-0.5
19	O050	0.1516	0.0158	2.26	0.63	0.07	0.08	0.35	0.49	0.004	-0.43	-0.25	-0.10	0.49	7333	1.4
20	O050	0.1516	0.0159	2.27	0.63	0.07	0.08	0.35	0.49	0.004	-0.43	-0.26	-0.10	0.49	7347	0.9
1	O127	0.7442	0.0159	1.74	0.65	0.08	0.23	0.50	0.17	0.014	-0.43	-0.23	0.28	0.33	7853	5.9
2	O127	0.7442	0.0163	1.80	0.62	0.07	0.22	0.53	0.17	0.003	-0.43	-0.30	0.25	0.33	7382	9.9
3	O127	0.7442	0.0163	1.78	0.63	0.07	0.24	0.51	0.17	0.005	-0.43	-0.31	0.27	0.33	7363	0.8
4	O127	0.7442	0.0163	1.78	0.62	0.07	0.24	0.52	0.17	0.003	-0.43	-0.30	0.26	0.33	7383	-4.2
5	O127	0.7442	0.0162	1.79	0.64	0.07	0.23	0.52	0.17	0.004	-0.45	-0.31	0.26	0.34	7364	9.9
6	O127	0.7442	0.0163	1.80	0.62	0.07	0.23	0.52	0.17	0.005	-0.43	-0.30	0.26	0.33	7361	-5.4
7	O127	0.7442	0.0164	1.79	0.62	0.07	0.24	0.51	0.18	0.003	-0.44	-0.29	0.25	0.33	7378	9.9
8	O127	0.7442	0.0163	1.79	0.64	0.07	0.23	0.52	0.18	0.003	-0.47	-0.29	0.26	0.33	7374	3.8
9	O127	0.7442	0.0162	1.81	0.63	0.07	0.22	0.52	0.18	0.004	-0.45	-0.29	0.24	0.34	7385	-9.9
10	O127	0.7442	0.0162	1.80	0.64	0.08	0.22	0.52	0.18	0.004	-0.47	-0.28	0.25	0.34	7361	9.9
11	O127	0.7442	0.0164	1.79	0.63	0.08	0.23	0.51	0.18	0.004	-0.45	-0.29	0.26	0.34	7350	-1.7
12	O127	0.7442	0.0163	1.79	0.63	0.07	0.23	0.52	0.18	0.005	-0.43	-0.30	0.27	0.33	7341	9.9
13	O127	0.7442	0.0163	1.79	0.63	0.07	0.23	0.51	0.18	0.004	-0.45	-0.29	0.25	0.34	7315	1.9
14	O127	0.7442	0.0164	1.80	0.63	0.07	0.23	0.52	0.17	0.003	-0.45	-0.31	0.27	0.33	7303	-5.7
15	O127	0.7442	0.0163	1.79	0.62	0.07	0.23	0.53	0.17	0.004	-0.44	-0.29	0.25	0.33	7292	9.9
16	O127	0.7442	0.0164	1.80	0.62	0.07	0.23	0.53	0.17	0.003	-0.43	-0.31	0.26	0.33	7295	-1.3
17	O127	0.7442	0.0167	1.78	0.62	0.08	0.23	0.52	0.17	0.004	-0.45	-0.27	0.25	0.33	7314	9.9
18	O127	0.7442	0.0166	1.78	0.63	0.07	0.24	0.52	0.17	0.004	-0.44	-0.31	0.28	0.33	7287	-0.8
19	O127	0.7442	0.0166	1.79	0.63	0.07	0.23	0.53	0.17	0.004	-0.44	-0.30	0.27	0.33	7333	-3.2
20	O127	0.7442	0.0166	1.80	0.63	0.07	0.23	0.51	0.18	0.004	-0.44	-0.31	0.25	0.34	7347	9.2
1	O133	0.7269	0.0159	1.75	0.62	0.06	0.27	0.50	0.16	0.014	-0.35	-0.28	0.28	0.31	7853	9.9
2	O133	0.7269	0.0163	1.82	0.57	0.05	0.25	0.53	0.18	0.003	-0.37	-0.31	0.22	0.31	7382	9.9
3	O133	0.7269	0.0163	1.79	0.57	0.05	0.27	0.53	0.16	0.005	-0.36	-0.31	0.25	0.29	7363	9.9
4	O133	0.7269	0.0163	1.80	0.55	0.05	0.27	0.52	0.17	0.003	-0.37	-0.29	0.22	0.30	7383	9.9
5	O133	0.7269	0.0163	1.80	0.58	0.05	0.26	0.52	0.17	0.004	-0.39	-0.31	0.23	0.32	7364	9.9
6	O133	0.7269	0.0163	1.80	0.58	0.05	0.27	0.51	0.17	0.005	-0.36	-0.32	0.23	0.31	7361	9.9
7	O133	0.7269	0.0164	1.80	0.57	0.05	0.27	0.51	0.17	0.003	-0.40	-0.30	0.24	0.30	7378	9.9
8	O133	0.7269	0.0163	1.80	0.57	0.05	0.26	0.52	0.17	0.003	-0.37	-0.32	0.24	0.30	7374	9.9
9	O133	0.7269	0.0163	1.79	0.55	0.05	0.27	0.52	0.16	0.004	-0.37	-0.29	0.23	0.30	7385	9.9
10	O133	0.7269	0.0163	1.81	0.57	0.05	0.26	0.52	0.17	0.004	-0.35	-0.32	0.21	0.33	7361	9.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
11	O133	0.7269	0.0164	1.78	0.57	0.05	0.27	0.51	0.16	0.004	-0.35	-0.31	0.24	0.31	7350	9.9
12	O133	0.7269	0.0163	1.80	0.57	0.05	0.26	0.52	0.17	0.005	-0.35	-0.31	0.22	0.32	7341	9.9
13	O133	0.7269	0.0163	1.80	0.57	0.05	0.27	0.51	0.17	0.004	-0.39	-0.29	0.23	0.31	7315	9.9
14	O133	0.7269	0.0164	1.78	0.56	0.05	0.28	0.51	0.16	0.003	-0.37	-0.29	0.22	0.31	7303	9.9
15	O133	0.7269	0.0164	1.81	0.55	0.05	0.26	0.52	0.17	0.004	-0.34	-0.30	0.20	0.32	7292	9.9
16	O133	0.7269	0.0164	1.79	0.56	0.05	0.27	0.52	0.16	0.003	-0.36	-0.32	0.24	0.30	7295	9.9
17	O133	0.7269	0.0166	1.79	0.57	0.05	0.27	0.52	0.17	0.004	-0.37	-0.31	0.24	0.30	7314	9.9
18	O133	0.7269	0.0166	1.78	0.57	0.05	0.27	0.52	0.16	0.004	-0.36	-0.32	0.24	0.31	7287	9.9
19	O133	0.7269	0.0166	1.79	0.55	0.05	0.27	0.52	0.16	0.004	-0.36	-0.30	0.23	0.30	7333	9.9
20	O133	0.7269	0.0166	1.81	0.58	0.05	0.25	0.52	0.17	0.004	-0.38	-0.31	0.23	0.32	7347	9.9

Appendix AA:

**2005 Common Grade 11 Constructed Response Statistics for
Reading**

2005 Common Grade 11 Constructed Response Statistics for Reading

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
1	O033	0.2020	0.0277	2.19	0.73	0.05	0.13	0.39	0.43	0.005	-0.42	-0.40	-0.01	0.52	6890	-9.9
2	O033	0.2020	0.0289	2.26	0.71	0.03	0.11	0.42	0.44	0.004	-0.38	-0.44	-0.06	0.51	6546	-9.9
3	O033	0.2020	0.0286	2.25	0.71	0.03	0.12	0.40	0.44	0.005	-0.38	-0.45	-0.04	0.50	6555	-9.9
4	O033	0.2020	0.0285	2.24	0.70	0.03	0.12	0.42	0.43	0.004	-0.40	-0.44	-0.04	0.49	6526	-9.9
5	O033	0.2020	0.0286	2.25	0.70	0.03	0.12	0.40	0.44	0.005	-0.39	-0.41	-0.06	0.50	6520	-9.9
6	O033	0.2020	0.0288	2.26	0.68	0.03	0.11	0.41	0.44	0.004	-0.37	-0.42	-0.08	0.50	6532	-9.9
7	O033	0.2020	0.0285	2.26	0.69	0.03	0.12	0.41	0.44	0.004	-0.36	-0.43	-0.07	0.50	6529	-9.9
8	O033	0.2020	0.0292	2.26	0.69	0.04	0.11	0.41	0.44	0.005	-0.40	-0.40	-0.06	0.50	6532	-9.9
9	O033	0.2020	0.0285	2.26	0.69	0.03	0.11	0.41	0.44	0.004	-0.38	-0.41	-0.07	0.50	6535	-9.9
10	O033	0.2020	0.0291	2.25	0.69	0.03	0.12	0.40	0.44	0.004	-0.38	-0.43	-0.06	0.51	6521	-9.0
11	O033	0.2020	0.0285	2.25	0.71	0.03	0.11	0.41	0.44	0.005	-0.39	-0.42	-0.06	0.51	6488	-9.9
12	O033	0.2020	0.0283	2.26	0.68	0.03	0.12	0.41	0.44	0.004	-0.35	-0.42	-0.08	0.50	6528	-9.9
13	O033	0.2020	0.0289	2.26	0.69	0.03	0.11	0.41	0.45	0.005	-0.36	-0.41	-0.08	0.51	6521	-9.9
14	O033	0.2020	0.0282	2.27	0.68	0.03	0.11	0.40	0.45	0.005	-0.37	-0.40	-0.08	0.50	6496	-9.9
15	O033	0.2020	0.0286	2.26	0.70	0.03	0.12	0.40	0.45	0.006	-0.39	-0.42	-0.05	0.50	6489	-9.9
16	O033	0.2020	0.0284	2.26	0.70	0.03	0.11	0.41	0.44	0.004	-0.37	-0.43	-0.08	0.51	6496	-9.9
17	O033	0.2020	0.0298	2.25	0.69	0.03	0.12	0.41	0.44	0.005	-0.38	-0.41	-0.07	0.51	6513	-7.5
18	O033	0.2020	0.0297	2.25	0.69	0.04	0.11	0.41	0.44	0.004	-0.41	-0.39	-0.07	0.50	6507	-7.6
19	O033	0.2020	0.0294	2.25	0.70	0.03	0.12	0.40	0.44	0.004	-0.38	-0.44	-0.05	0.51	6541	-9.9
20	O033	0.2020	0.0294	2.24	0.69	0.03	0.12	0.41	0.44	0.005	-0.38	-0.42	-0.03	0.48	6497	-7.4
1	O050	0.4667	0.0157	1.88	0.70	0.11	0.16	0.44	0.28	0.009	-0.49	-0.27	0.17	0.44	6890	-3.3
2	O050	0.4667	0.0165	1.93	0.67	0.10	0.17	0.43	0.30	0.005	-0.47	-0.30	0.14	0.44	6546	-2.7
3	O050	0.4667	0.0163	1.93	0.67	0.10	0.16	0.45	0.29	0.005	-0.48	-0.29	0.15	0.42	6555	-3.2
4	O050	0.4667	0.0162	1.94	0.67	0.10	0.15	0.45	0.30	0.004	-0.50	-0.28	0.14	0.42	6526	-3.9
5	O050	0.4667	0.0163	1.93	0.67	0.10	0.15	0.45	0.30	0.005	-0.48	-0.28	0.13	0.44	6520	-3.2
6	O050	0.4667	0.0164	1.93	0.67	0.10	0.16	0.45	0.29	0.004	-0.48	-0.30	0.14	0.43	6532	-3.8
7	O050	0.4667	0.0162	1.92	0.66	0.10	0.17	0.44	0.29	0.004	-0.46	-0.29	0.14	0.43	6529	-2.9
8	O050	0.4667	0.0166	1.93	0.66	0.10	0.15	0.46	0.29	0.005	-0.46	-0.29	0.14	0.42	6532	-0.8
9	O050	0.4667	0.0163	1.91	0.67	0.10	0.16	0.45	0.28	0.004	-0.48	-0.29	0.16	0.42	6535	-3.8
10	O050	0.4667	0.0166	1.90	0.66	0.11	0.17	0.44	0.28	0.004	-0.49	-0.27	0.16	0.42	6521	0.4
11	O050	0.4667	0.0162	1.91	0.68	0.10	0.17	0.45	0.29	0.005	-0.47	-0.30	0.15	0.43	6488	-7.0
12	O050	0.4667	0.0161	1.91	0.66	0.10	0.16	0.45	0.29	0.004	-0.47	-0.29	0.14	0.43	6528	-4.3
13	O050	0.4667	0.0164	1.92	0.68	0.10	0.16	0.45	0.29	0.005	-0.46	-0.31	0.14	0.45	6521	-5.5
14	O050	0.4667	0.0160	1.93	0.66	0.10	0.16	0.45	0.29	0.005	-0.46	-0.28	0.13	0.43	6496	-4.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
15	O050	0.4667	0.0163	1.92	0.66	0.10	0.16	0.45	0.29	0.006	-0.45	-0.29	0.15	0.42	6489	-3.0
16	O050	0.4667	0.0161	1.92	0.66	0.10	0.16	0.45	0.29	0.004	-0.48	-0.28	0.14	0.42	6496	-2.8
17	O050	0.4667	0.0170	1.92	0.66	0.10	0.16	0.45	0.29	0.005	-0.47	-0.28	0.14	0.42	6513	2.3
18	O050	0.4667	0.0169	1.92	0.66	0.11	0.16	0.45	0.29	0.004	-0.48	-0.29	0.15	0.42	6507	1.9
19	O050	0.4667	0.0167	1.91	0.66	0.11	0.16	0.44	0.29	0.004	-0.48	-0.27	0.15	0.42	6541	1.0
20	O050	0.4667	0.0168	1.93	0.66	0.10	0.16	0.43	0.30	0.005	-0.46	-0.29	0.14	0.42	6497	0.9
1	O123	-1.7376	0.0399	1.73	0.71	0.11	0.24	0.43	0.21	0.009	-0.51	-0.26	0.28	0.41	6890	6.4
2	O123	-1.7376	0.0439	1.80	0.68	0.09	0.23	0.45	0.23	0.005	-0.48	-0.31	0.23	0.41	6546	7.1
3	O123	-1.7376	0.0429	1.79	0.69	0.10	0.24	0.43	0.23	0.005	-0.50	-0.29	0.25	0.40	6555	9.9
4	O123	-1.7376	0.0428	1.79	0.68	0.09	0.25	0.43	0.23	0.004	-0.49	-0.31	0.24	0.40	6526	2.9
5	O123	-1.7376	0.0428	1.78	0.69	0.09	0.24	0.45	0.21	0.005	-0.48	-0.30	0.25	0.40	6520	5.4
6	O123	-1.7376	0.0437	1.79	0.70	0.09	0.25	0.45	0.22	0.004	-0.49	-0.33	0.24	0.42	6532	3.5
7	O123	-1.7376	0.0429	1.78	0.68	0.09	0.24	0.45	0.21	0.004	-0.48	-0.32	0.26	0.39	6529	5.0
8	O123	-1.7376	0.0441	1.78	0.68	0.10	0.24	0.43	0.23	0.005	-0.48	-0.30	0.23	0.41	6532	9.9
9	O123	-1.7376	0.0431	1.81	0.70	0.09	0.23	0.45	0.23	0.004	-0.49	-0.32	0.25	0.41	6535	2.7
10	O123	-1.7376	0.0434	1.78	0.69	0.10	0.24	0.43	0.23	0.004	-0.49	-0.31	0.24	0.41	6521	2.3
11	O123	-1.7376	0.0434	1.80	0.68	0.09	0.24	0.43	0.23	0.005	-0.46	-0.31	0.22	0.42	6488	4.0
12	O123	-1.7376	0.0427	1.80	0.69	0.09	0.24	0.44	0.23	0.004	-0.47	-0.33	0.23	0.42	6528	5.0
13	O123	-1.7376	0.0437	1.78	0.70	0.09	0.24	0.44	0.22	0.005	-0.47	-0.33	0.25	0.42	6521	9.9
14	O123	-1.7376	0.0428	1.79	0.68	0.09	0.24	0.44	0.22	0.005	-0.46	-0.32	0.24	0.41	6496	6.1
15	O123	-1.7376	0.0434	1.78	0.70	0.09	0.25	0.43	0.23	0.006	-0.48	-0.31	0.25	0.41	6489	1.8
16	O123	-1.7376	0.0422	1.78	0.69	0.09	0.25	0.43	0.23	0.004	-0.49	-0.31	0.24	0.41	6496	9.9
17	O123	-1.7376	0.0466	1.77	0.69	0.10	0.24	0.44	0.22	0.005	-0.48	-0.30	0.25	0.41	6513	-0.7
18	O123	-1.7376	0.0464	1.79	0.69	0.09	0.24	0.44	0.22	0.004	-0.50	-0.30	0.24	0.41	6507	3.6
19	O123	-1.7376	0.0459	1.80	0.69	0.09	0.24	0.44	0.23	0.004	-0.48	-0.33	0.24	0.41	6541	-4.1
20	O123	-1.7376	0.0456	1.79	0.68	0.09	0.25	0.44	0.22	0.005	-0.47	-0.31	0.24	0.40	6497	-1.5
1	O133	0.6252	0.0188	1.78	0.72	0.07	0.18	0.62	0.12	0.009	-0.48	-0.34	0.37	0.32	6890	9.9
2	O133	0.6252	0.0198	1.83	0.68	0.05	0.18	0.65	0.12	0.005	-0.44	-0.39	0.34	0.31	6546	9.9
3	O133	0.6252	0.0197	1.84	0.68	0.06	0.17	0.64	0.13	0.005	-0.45	-0.36	0.33	0.31	6555	9.9
4	O133	0.6252	0.0197	1.83	0.68	0.06	0.18	0.63	0.13	0.004	-0.46	-0.37	0.33	0.31	6526	9.9
5	O133	0.6252	0.0196	1.82	0.68	0.06	0.18	0.63	0.13	0.005	-0.46	-0.35	0.32	0.32	6520	9.9
6	O133	0.6252	0.0197	1.84	0.67	0.06	0.18	0.64	0.13	0.004	-0.44	-0.37	0.30	0.33	6532	9.9
7	O133	0.6252	0.0196	1.82	0.66	0.06	0.17	0.65	0.12	0.004	-0.44	-0.36	0.33	0.30	6529	9.9
8	O133	0.6252	0.0199	1.83	0.68	0.06	0.17	0.63	0.13	0.005	-0.45	-0.36	0.33	0.31	6532	9.9
9	O133	0.6252	0.0197	1.84	0.68	0.06	0.17	0.63	0.13	0.004	-0.45	-0.38	0.32	0.32	6535	9.9
10	O133	0.6252	0.0198	1.83	0.68	0.06	0.18	0.63	0.13	0.004	-0.47	-0.36	0.32	0.32	6521	9.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting					Point Biserial Correlation for				Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	Omitted	0	1	2	3		
11	O133	0.6252	0.0197	1.82	0.67	0.06	0.17	0.65	0.12	0.005	-0.44	-0.36	0.33	0.30	6488	9.9
12	O133	0.6252	0.0195	1.83	0.66	0.06	0.17	0.65	0.12	0.004	-0.44	-0.36	0.32	0.30	6528	9.9
13	O133	0.6252	0.0198	1.83	0.67	0.06	0.17	0.64	0.13	0.005	-0.44	-0.34	0.30	0.32	6521	9.9
14	O133	0.6252	0.0196	1.83	0.67	0.06	0.18	0.64	0.13	0.005	-0.44	-0.36	0.32	0.31	6496	9.9
15	O133	0.6252	0.0198	1.83	0.67	0.06	0.18	0.63	0.13	0.006	-0.44	-0.35	0.32	0.31	6489	9.9
16	O133	0.6252	0.0195	1.84	0.66	0.05	0.18	0.63	0.13	0.004	-0.43	-0.35	0.30	0.32	6496	9.9
17	O133	0.6252	0.0203	1.81	0.67	0.06	0.18	0.63	0.13	0.005	-0.45	-0.34	0.32	0.31	6513	9.9
18	O133	0.6252	0.0203	1.84	0.67	0.06	0.18	0.62	0.14	0.004	-0.44	-0.36	0.30	0.34	6507	9.9
19	O133	0.6252	0.0201	1.84	0.68	0.06	0.17	0.64	0.13	0.004	-0.46	-0.36	0.31	0.32	6541	9.9
20	O133	0.6252	0.0202	1.83	0.67	0.05	0.19	0.63	0.13	0.005	-0.44	-0.35	0.31	0.31	6497	9.9

Appendix BB:

**2005 Common Grade 5 Constructed Response Statistics for
Mathematics**

2005 Common Grade 5 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
1	O023	1.5454	0.0126	2.45	0.69	0.07	0.14	0.18	0.49	0.12	0.001	-0.47	-0.35	-0.11	0.38	0.29	7392	-9.9
2	O023	1.5454	0.0133	2.49	0.68	0.06	0.13	0.18	0.50	0.13	0.001	-0.46	-0.35	-0.10	0.35	0.30	6809	-9.9
3	O023	1.5454	0.0129	2.52	0.65	0.05	0.13	0.18	0.51	0.12	0.001	-0.43	-0.36	-0.11	0.34	0.29	6819	-9.9
4	O023	1.5454	0.0130	2.51	0.65	0.06	0.12	0.18	0.51	0.12	0.001	-0.43	-0.35	-0.12	0.34	0.29	6794	-9.9
5	O023	1.5454	0.0129	2.49	0.66	0.06	0.13	0.19	0.50	0.12	0.001	-0.44	-0.35	-0.11	0.34	0.29	6775	-9.9
6	O023	1.5454	0.0129	2.50	0.66	0.06	0.13	0.18	0.50	0.13	0.000	-0.43	-0.36	-0.12	0.34	0.31	6795	-9.9
7	O023	1.5454	0.0129	2.52	0.65	0.06	0.13	0.18	0.51	0.13	0.001	-0.42	-0.35	-0.13	0.34	0.29	6791	-9.9
8	O023	1.5454	0.0130	2.52	0.66	0.05	0.13	0.19	0.51	0.12	0.001	-0.43	-0.36	-0.12	0.35	0.28	6820	-8.7
9	O023	1.5454	0.0128	2.54	0.65	0.05	0.13	0.18	0.51	0.13	0.001	-0.42	-0.36	-0.13	0.33	0.29	6803	-9.9
10	O023	1.5454	0.0129	2.50	0.66	0.06	0.14	0.17	0.50	0.13	0.001	-0.44	-0.36	-0.10	0.34	0.30	6802	-5.9
11	O023	1.5454	0.0130	2.53	0.67	0.06	0.12	0.18	0.51	0.13	0.001	-0.44	-0.37	-0.11	0.33	0.31	6795	-8.3
12	O023	1.5454	0.0131	2.52	0.66	0.06	0.13	0.18	0.51	0.13	0.001	-0.44	-0.37	-0.11	0.35	0.28	6792	-6.2
13	O023	1.5454	0.0128	2.55	0.67	0.06	0.12	0.18	0.52	0.13	0.001	-0.44	-0.35	-0.13	0.34	0.30	6782	-9.3
14	O023	1.5454	0.0127	2.53	0.67	0.06	0.12	0.18	0.51	0.13	0.001	-0.44	-0.36	-0.12	0.33	0.30	6784	-9.5
15	O023	1.5454	0.0130	2.54	0.65	0.05	0.13	0.18	0.51	0.13	0.001	-0.42	-0.36	-0.11	0.31	0.31	6754	-9.9
16	O023	1.5454	0.0132	2.54	0.66	0.06	0.12	0.18	0.52	0.13	0.001	-0.44	-0.36	-0.11	0.34	0.28	6779	-8.5
17	O023	1.5454	0.0130	2.50	0.67	0.06	0.13	0.18	0.50	0.12	0.002	-0.43	-0.37	-0.10	0.35	0.29	6779	-9.9
18	O023	1.5454	0.0131	2.55	0.66	0.05	0.13	0.17	0.52	0.13	0.001	-0.43	-0.37	-0.13	0.34	0.29	6753	-9.9
19	O023	1.5454	0.0131	2.53	0.64	0.06	0.12	0.19	0.51	0.13	0.001	-0.42	-0.35	-0.12	0.32	0.30	6734	-9.2
20	O023	1.5454	0.0134	2.51	0.67	0.06	0.13	0.18	0.51	0.12	0.001	-0.44	-0.36	-0.12	0.36	0.29	6725	-9.9
1	O024	1.6042	0.0115	1.77	0.61	0.29	0.17	0.23	0.12	0.20	0.001	-0.49	-0.18	0.15	0.23	0.39	7392	-9.9
2	O024	1.6042	0.0121	1.83	0.60	0.27	0.16	0.24	0.13	0.20	0.001	-0.49	-0.18	0.14	0.21	0.39	6809	9.9
3	O024	1.6042	0.0118	1.85	0.59	0.27	0.16	0.23	0.14	0.20	0.001	-0.47	-0.19	0.12	0.21	0.39	6819	-9.9
4	O024	1.6042	0.0120	1.84	0.59	0.26	0.16	0.24	0.13	0.20	0.001	-0.46	-0.20	0.14	0.21	0.38	6794	-9.9
5	O024	1.6042	0.0118	1.84	0.59	0.26	0.16	0.25	0.13	0.20	0.001	-0.47	-0.18	0.14	0.21	0.37	6775	-9.9
6	O024	1.6042	0.0119	1.86	0.59	0.26	0.16	0.23	0.14	0.21	0.000	-0.47	-0.19	0.13	0.20	0.38	6795	-9.9
7	O024	1.6042	0.0119	1.82	0.60	0.27	0.16	0.24	0.13	0.20	0.001	-0.47	-0.18	0.12	0.21	0.39	6791	-9.9
8	O024	1.6042	0.0117	1.84	0.61	0.27	0.16	0.24	0.13	0.20	0.001	-0.49	-0.19	0.13	0.20	0.40	6820	9.9
9	O024	1.6042	0.0117	1.88	0.60	0.26	0.16	0.24	0.13	0.21	0.001	-0.46	-0.21	0.11	0.20	0.40	6803	-9.9
10	O024	1.6042	0.0116	1.84	0.60	0.27	0.16	0.23	0.13	0.21	0.001	-0.48	-0.19	0.15	0.21	0.38	6802	-9.9
11	O024	1.6042	0.0117	1.83	0.59	0.27	0.16	0.23	0.14	0.20	0.001	-0.46	-0.20	0.14	0.20	0.38	6795	9.9
12	O024	1.6042	0.0117	1.85	0.58	0.26	0.16	0.24	0.14	0.20	0.001	-0.47	-0.17	0.12	0.20	0.37	6792	9.9
13	O024	1.6042	0.0117	1.88	0.58	0.26	0.16	0.24	0.14	0.21	0.001	-0.47	-0.16	0.12	0.19	0.38	6782	-9.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
14	O024	1.6042	0.0116	1.87	0.59	0.26	0.15	0.25	0.12	0.21	0.001	-0.48	-0.19	0.14	0.18	0.39	6784	-9.9
15	O024	1.6042	0.0120	1.87	0.58	0.26	0.16	0.24	0.13	0.21	0.001	-0.45	-0.20	0.13	0.20	0.38	6754	-9.9
16	O024	1.6042	0.0118	1.89	0.59	0.25	0.16	0.24	0.14	0.21	0.001	-0.47	-0.17	0.10	0.20	0.38	6779	9.9
17	O024	1.6042	0.0120	1.85	0.59	0.26	0.16	0.24	0.13	0.21	0.002	-0.46	-0.19	0.14	0.21	0.38	6779	-9.9
18	O024	1.6042	0.0119	1.84	0.59	0.26	0.16	0.25	0.13	0.20	0.001	-0.47	-0.20	0.14	0.21	0.38	6753	9.9
19	O024	1.6042	0.0120	1.85	0.59	0.26	0.16	0.25	0.14	0.20	0.001	-0.47	-0.19	0.14	0.20	0.37	6734	9.9
20	O024	1.6042	0.0122	1.86	0.59	0.26	0.17	0.23	0.13	0.21	0.001	-0.47	-0.20	0.13	0.21	0.39	6725	9.9
1	O116	1.7996	0.0117	2.44	0.60	0.03	0.17	0.30	0.33	0.17	0.001	-0.32	-0.39	-0.07	0.24	0.34	7392	-9.9
2	O116	1.7996	0.0123	2.45	0.58	0.02	0.17	0.30	0.34	0.16	0.001	-0.31	-0.40	-0.06	0.23	0.32	6809	-9.9
3	O116	1.7996	0.0120	2.50	0.57	0.02	0.16	0.30	0.33	0.19	0.001	-0.29	-0.40	-0.09	0.22	0.33	6819	-9.9
4	O116	1.7996	0.0121	2.51	0.58	0.02	0.16	0.29	0.35	0.19	0.001	-0.29	-0.40	-0.08	0.21	0.34	6794	-9.9
5	O116	1.7996	0.0120	2.48	0.57	0.02	0.17	0.30	0.34	0.18	0.001	-0.28	-0.41	-0.08	0.23	0.32	6775	5.0
6	O116	1.7996	0.0120	2.50	0.57	0.02	0.16	0.29	0.34	0.18	0.000	-0.29	-0.38	-0.10	0.23	0.32	6795	9.9
7	O116	1.7996	0.0120	2.49	0.57	0.02	0.16	0.30	0.33	0.18	0.001	-0.29	-0.39	-0.08	0.20	0.34	6791	4.0
8	O116	1.7996	0.0119	2.51	0.57	0.02	0.16	0.29	0.35	0.18	0.001	-0.27	-0.41	-0.07	0.21	0.32	6820	-9.9
9	O116	1.7996	0.0118	2.49	0.56	0.02	0.16	0.30	0.34	0.18	0.001	-0.28	-0.38	-0.09	0.20	0.33	6803	9.9
10	O116	1.7996	0.0117	2.45	0.56	0.02	0.17	0.31	0.33	0.17	0.001	-0.29	-0.39	-0.05	0.21	0.31	6802	-9.9
11	O116	1.7996	0.0118	2.55	0.58	0.02	0.16	0.27	0.37	0.19	0.001	-0.29	-0.39	-0.11	0.21	0.33	6795	-9.9
12	O116	1.7996	0.0119	2.47	0.57	0.03	0.17	0.29	0.34	0.18	0.001	-0.31	-0.39	-0.07	0.23	0.31	6792	-9.9
13	O116	1.7996	0.0118	2.53	0.57	0.02	0.16	0.28	0.35	0.19	0.001	-0.30	-0.39	-0.09	0.22	0.32	6782	6.7
14	O116	1.7996	0.0117	2.51	0.57	0.02	0.16	0.30	0.34	0.18	0.001	-0.31	-0.39	-0.08	0.21	0.33	6784	4.6
15	O116	1.7996	0.0121	2.52	0.57	0.02	0.15	0.29	0.35	0.19	0.001	-0.29	-0.39	-0.09	0.21	0.32	6754	6.9
16	O116	1.7996	0.0120	2.53	0.57	0.02	0.16	0.29	0.35	0.19	0.001	-0.29	-0.40	-0.09	0.22	0.32	6779	-9.9
17	O116	1.7996	0.0121	2.48	0.58	0.02	0.17	0.29	0.34	0.18	0.002	-0.29	-0.41	-0.06	0.21	0.33	6779	9.9
18	O116	1.7996	0.0121	2.49	0.58	0.02	0.16	0.30	0.34	0.18	0.001	-0.30	-0.41	-0.08	0.22	0.33	6753	-9.9
19	O116	1.7996	0.0121	2.56	0.55	0.02	0.14	0.29	0.35	0.20	0.001	-0.29	-0.36	-0.11	0.20	0.32	6734	-9.9
20	O116	1.7996	0.0123	2.49	0.58	0.02	0.16	0.29	0.34	0.18	0.001	-0.30	-0.41	-0.07	0.22	0.33	6725	-9.9

Appendix CC:

**2005 Common Grade 8 Constructed Response Statistics for
Mathematics**

2005 Common Grade 8 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
1	O023	1.2597	0.0118	1.88	0.74	0.26	0.16	0.14	0.32	0.12	0.002	-0.61	-0.16	0.02	0.43	0.38	7953	5.5
2	O023	1.2597	0.0123	1.96	0.73	0.24	0.15	0.14	0.34	0.13	0.002	-0.59	-0.17	-0.01	0.41	0.39	7395	4.2
3	O023	1.2597	0.0124	1.96	0.73	0.25	0.15	0.14	0.34	0.13	0.001	-0.59	-0.16	-0.01	0.41	0.38	7392	6.0
4	O023	1.2597	0.0123	1.94	0.74	0.25	0.15	0.14	0.34	0.13	0.001	-0.60	-0.17	-0.01	0.42	0.39	7394	3.7
5	O023	1.2597	0.0123	1.94	0.73	0.25	0.14	0.15	0.33	0.12	0.001	-0.59	-0.18	-0.01	0.42	0.38	7387	6.0
6	O023	1.2597	0.0122	1.93	0.73	0.25	0.15	0.14	0.34	0.12	0.001	-0.59	-0.18	-0.01	0.42	0.38	7388	2.1
7	O023	1.2597	0.0122	1.98	0.73	0.24	0.15	0.13	0.35	0.13	0.002	-0.60	-0.16	-0.00	0.40	0.38	7391	4.9
8	O023	1.2597	0.0121	1.94	0.73	0.24	0.16	0.14	0.33	0.13	0.001	-0.59	-0.17	0.00	0.40	0.39	7394	3.4
9	O023	1.2597	0.0123	2.00	0.73	0.23	0.15	0.14	0.34	0.13	0.001	-0.58	-0.19	-0.02	0.41	0.38	7395	5.4
10	O023	1.2597	0.0123	1.97	0.74	0.24	0.15	0.14	0.34	0.13	0.001	-0.60	-0.18	-0.01	0.41	0.39	7377	2.3
11	O023	1.2597	0.0121	1.92	0.74	0.25	0.16	0.14	0.33	0.12	0.001	-0.59	-0.18	-0.01	0.41	0.40	7377	3.0
12	O023	1.2597	0.0124	1.96	0.73	0.24	0.15	0.14	0.33	0.13	0.001	-0.59	-0.17	-0.02	0.41	0.39	7357	6.4
13	O023	1.2597	0.0124	1.98	0.73	0.23	0.15	0.15	0.34	0.13	0.001	-0.59	-0.18	0.00	0.40	0.38	7335	5.8
14	O023	1.2597	0.0123	1.97	0.73	0.24	0.15	0.14	0.34	0.13	0.002	-0.58	-0.18	-0.01	0.40	0.39	7320	6.2
15	O023	1.2597	0.0124	1.94	0.73	0.25	0.16	0.13	0.34	0.13	0.001	-0.60	-0.17	0.01	0.41	0.38	7307	4.8
16	O023	1.2597	0.0122	1.93	0.73	0.25	0.16	0.13	0.33	0.13	0.002	-0.59	-0.16	0.00	0.39	0.40	7316	4.2
17	O023	1.2597	0.0123	1.96	0.74	0.24	0.15	0.14	0.34	0.13	0.001	-0.59	-0.18	-0.01	0.40	0.40	7330	4.7
18	O023	1.2597	0.0124	1.97	0.73	0.24	0.14	0.14	0.34	0.13	0.001	-0.60	-0.18	-0.01	0.41	0.38	7306	4.1
19	O023	1.2597	0.0125	1.95	0.73	0.24	0.15	0.14	0.34	0.12	0.002	-0.59	-0.16	-0.00	0.42	0.37	7337	5.8
20	O023	1.2597	0.0125	1.96	0.73	0.24	0.15	0.14	0.34	0.13	0.002	-0.59	-0.17	-0.00	0.41	0.38	7354	5.0
1	O024	0.5808	0.0118	2.44	0.74	0.12	0.12	0.20	0.31	0.25	0.002	-0.45	-0.33	-0.19	0.24	0.53	7953	-1.9
2	O024	0.5808	0.0125	2.52	0.73	0.11	0.11	0.20	0.32	0.26	0.002	-0.44	-0.29	-0.23	0.20	0.53	7395	0.0
3	O024	0.5808	0.0127	2.53	0.74	0.11	0.10	0.20	0.32	0.27	0.001	-0.45	-0.34	-0.22	0.21	0.52	7392	-0.2
4	O024	0.5808	0.0124	2.54	0.73	0.11	0.11	0.20	0.32	0.27	0.001	-0.45	-0.31	-0.22	0.20	0.53	7394	0.1
5	O024	0.5808	0.0125	2.55	0.73	0.10	0.10	0.20	0.32	0.27	0.001	-0.44	-0.32	-0.23	0.19	0.53	7387	-1.1
6	O024	0.5808	0.0125	2.56	0.72	0.10	0.10	0.20	0.32	0.27	0.001	-0.42	-0.33	-0.24	0.19	0.53	7388	-0.9
7	O024	0.5808	0.0126	2.56	0.74	0.10	0.10	0.20	0.32	0.27	0.002	-0.45	-0.31	-0.23	0.20	0.53	7391	-2.2
8	O024	0.5808	0.0124	2.54	0.73	0.10	0.10	0.21	0.32	0.27	0.001	-0.43	-0.32	-0.22	0.19	0.53	7394	-1.8
9	O024	0.5808	0.0126	2.58	0.73	0.10	0.10	0.21	0.32	0.28	0.001	-0.42	-0.33	-0.24	0.18	0.53	7395	0.7
10	O024	0.5808	0.0126	2.53	0.74	0.11	0.10	0.20	0.32	0.27	0.001	-0.46	-0.32	-0.21	0.21	0.52	7377	-1.4
11	O024	0.5808	0.0122	2.54	0.73	0.10	0.10	0.21	0.32	0.26	0.001	-0.43	-0.30	-0.25	0.20	0.53	7377	-2.8
12	O024	0.5808	0.0126	2.54	0.72	0.10	0.11	0.20	0.32	0.27	0.001	-0.43	-0.31	-0.22	0.19	0.52	7357	2.1
13	O024	0.5808	0.0128	2.57	0.72	0.10	0.10	0.20	0.32	0.27	0.001	-0.44	-0.31	-0.23	0.19	0.52	7335	1.0

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
14	O024	0.5808	0.0124	2.56	0.73	0.10	0.10	0.20	0.33	0.27	0.002	-0.44	-0.31	-0.23	0.20	0.52	7320	-2.2
15	O024	0.5808	0.0126	2.56	0.74	0.10	0.11	0.21	0.32	0.27	0.001	-0.44	-0.34	-0.23	0.21	0.52	7307	-0.7
16	O024	0.5808	0.0125	2.54	0.73	0.10	0.10	0.21	0.32	0.26	0.002	-0.44	-0.32	-0.23	0.21	0.52	7316	-2.4
17	O024	0.5808	0.0124	2.54	0.74	0.10	0.11	0.21	0.32	0.27	0.001	-0.44	-0.31	-0.24	0.20	0.54	7330	-2.4
18	O024	0.5808	0.0127	2.57	0.72	0.10	0.10	0.21	0.32	0.28	0.001	-0.42	-0.31	-0.25	0.18	0.54	7306	1.3
19	O024	0.5808	0.0127	2.55	0.74	0.10	0.10	0.21	0.31	0.28	0.002	-0.44	-0.32	-0.22	0.20	0.53	7337	1.8
20	O024	0.5808	0.0127	2.54	0.74	0.11	0.10	0.20	0.33	0.27	0.002	-0.46	-0.31	-0.22	0.20	0.53	7354	-0.4
1	O115	0.2185	0.0130	2.19	0.69	0.09	0.21	0.20	0.40	0.10	0.002	-0.44	-0.38	-0.03	0.44	0.28	7953	9.9
2	O115	0.2185	0.0136	2.27	0.66	0.07	0.21	0.20	0.41	0.11	0.002	-0.38	-0.39	-0.07	0.40	0.30	7395	9.9
3	O115	0.2185	0.0138	2.26	0.67	0.07	0.21	0.21	0.41	0.10	0.001	-0.40	-0.41	-0.02	0.41	0.28	7392	9.9
4	O115	0.2185	0.0135	2.28	0.67	0.07	0.20	0.20	0.42	0.11	0.001	-0.40	-0.39	-0.05	0.38	0.32	7394	9.9
5	O115	0.2185	0.0136	2.29	0.69	0.07	0.21	0.21	0.40	0.12	0.001	-0.39	-0.43	-0.05	0.39	0.33	7387	9.9
6	O115	0.2185	0.0135	2.28	0.66	0.07	0.21	0.20	0.42	0.11	0.001	-0.39	-0.40	-0.05	0.39	0.30	7388	9.9
7	O115	0.2185	0.0136	2.26	0.68	0.08	0.21	0.19	0.42	0.10	0.002	-0.41	-0.40	-0.04	0.41	0.29	7391	9.7
8	O115	0.2185	0.0135	2.27	0.67	0.07	0.21	0.21	0.42	0.10	0.001	-0.40	-0.38	-0.06	0.40	0.30	7394	9.9
9	O115	0.2185	0.0137	2.29	0.67	0.07	0.20	0.20	0.43	0.10	0.001	-0.40	-0.38	-0.07	0.40	0.29	7395	9.9
10	O115	0.2185	0.0137	2.28	0.68	0.07	0.20	0.21	0.42	0.10	0.001	-0.42	-0.40	-0.03	0.40	0.29	7377	9.9
11	O115	0.2185	0.0134	2.27	0.68	0.07	0.21	0.20	0.41	0.11	0.001	-0.40	-0.40	-0.08	0.41	0.31	7377	9.9
12	O115	0.2185	0.0137	2.27	0.67	0.07	0.20	0.20	0.42	0.10	0.001	-0.41	-0.37	-0.06	0.40	0.29	7357	9.9
13	O115	0.2185	0.0138	2.23	0.66	0.08	0.22	0.20	0.41	0.10	0.001	-0.41	-0.38	-0.04	0.41	0.28	7335	9.9
14	O115	0.2185	0.0135	2.23	0.65	0.07	0.21	0.22	0.41	0.09	0.002	-0.38	-0.39	-0.03	0.41	0.26	7320	9.9
15	O115	0.2185	0.0137	2.32	0.68	0.06	0.20	0.21	0.41	0.12	0.001	-0.39	-0.41	-0.07	0.40	0.31	7307	9.9
16	O115	0.2185	0.0136	2.33	0.70	0.06	0.20	0.19	0.45	0.10	0.002	-0.39	-0.44	-0.07	0.42	0.30	7316	9.9
17	O115	0.2185	0.0135	2.27	0.66	0.07	0.20	0.21	0.42	0.10	0.001	-0.38	-0.40	-0.05	0.40	0.29	7330	9.9
18	O115	0.2185	0.0138	2.27	0.66	0.08	0.20	0.20	0.42	0.10	0.001	-0.40	-0.39	-0.06	0.42	0.27	7306	9.9
19	O115	0.2185	0.0138	2.27	0.67	0.07	0.20	0.20	0.42	0.10	0.002	-0.39	-0.40	-0.05	0.40	0.30	7337	9.9
20	O115	0.2185	0.0138	2.25	0.67	0.07	0.21	0.20	0.42	0.10	0.002	-0.40	-0.39	-0.05	0.41	0.29	7354	9.9

Appendix DD:

**2005 Common Grade 11 Constructed Response Statistics for
Mathematics**

2005 Common Grade 11 Constructed Response Statistics for Mathematics

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
1	O023	0.9967	0.0130	1.83	0.69	0.35	0.05	0.13	0.37	0.10	0.002	-0.59	-0.11	0.01	0.38	0.39	6942	9.9
2	O023	0.9967	0.0134	1.88	0.68	0.33	0.05	0.13	0.39	0.10	0.002	-0.58	-0.10	-0.01	0.37	0.39	6569	9.9
3	O023	0.9967	0.0134	1.86	0.67	0.34	0.04	0.13	0.38	0.10	0.001	-0.58	-0.10	0.00	0.37	0.39	6581	9.9
4	O023	0.9967	0.0132	1.88	0.67	0.33	0.05	0.13	0.38	0.11	0.002	-0.57	-0.12	-0.01	0.38	0.39	6542	9.9
5	O023	0.9967	0.0136	1.86	0.69	0.34	0.05	0.13	0.38	0.11	0.003	-0.59	-0.10	0.00	0.37	0.41	6531	9.9
6	O023	0.9967	0.0134	1.88	0.68	0.33	0.05	0.13	0.38	0.11	0.001	-0.59	-0.09	-0.02	0.38	0.40	6544	9.9
7	O023	0.9967	0.0134	1.87	0.69	0.34	0.05	0.12	0.39	0.11	0.002	-0.58	-0.12	-0.02	0.38	0.41	6544	9.9
8	O023	0.9967	0.0133	1.89	0.68	0.33	0.05	0.13	0.39	0.11	0.002	-0.58	-0.10	-0.02	0.37	0.40	6560	9.9
9	O023	0.9967	0.0135	1.88	0.68	0.34	0.05	0.12	0.38	0.11	0.002	-0.58	-0.11	0.01	0.36	0.40	6552	9.9
10	O023	0.9967	0.0133	1.86	0.68	0.35	0.05	0.12	0.38	0.11	0.001	-0.58	-0.09	-0.01	0.37	0.40	6554	9.9
11	O023	0.9967	0.0136	1.91	0.68	0.33	0.04	0.13	0.40	0.11	0.002	-0.59	-0.09	-0.02	0.39	0.37	6512	9.9
12	O023	0.9967	0.0130	1.88	0.68	0.34	0.04	0.12	0.40	0.10	0.002	-0.59	-0.10	-0.01	0.39	0.39	6542	9.9
13	O023	0.9967	0.0131	1.90	0.68	0.33	0.04	0.12	0.39	0.11	0.002	-0.58	-0.10	-0.01	0.37	0.40	6541	9.9
14	O023	0.9967	0.0135	1.89	0.67	0.34	0.05	0.12	0.38	0.11	0.002	-0.57	-0.10	-0.01	0.35	0.41	6518	9.9
15	O023	0.9967	0.0134	1.88	0.68	0.34	0.04	0.13	0.38	0.11	0.002	-0.59	-0.10	-0.01	0.37	0.41	6519	9.9
16	O023	0.9967	0.0133	1.88	0.68	0.33	0.05	0.12	0.39	0.11	0.002	-0.58	-0.13	-0.00	0.37	0.41	6511	9.9
17	O023	0.9967	0.0135	1.88	0.68	0.33	0.05	0.13	0.39	0.10	0.002	-0.58	-0.10	-0.01	0.38	0.39	6531	9.9
18	O023	0.9967	0.0136	1.89	0.68	0.33	0.04	0.13	0.39	0.11	0.002	-0.59	-0.10	-0.00	0.38	0.39	6514	9.9
19	O023	0.9967	0.0136	1.87	0.68	0.34	0.04	0.14	0.38	0.11	0.001	-0.59	-0.10	-0.00	0.37	0.39	6559	9.9
20	O023	0.9967	0.0134	1.88	0.67	0.34	0.05	0.12	0.38	0.11	0.001	-0.57	-0.13	0.00	0.36	0.40	6534	9.9
1	O024	1.0006	0.0137	1.78	0.72	0.23	0.27	0.09	0.31	0.10	0.002	-0.55	-0.18	0.04	0.37	0.44	6942	9.9
2	O024	1.0006	0.0141	1.83	0.72	0.21	0.27	0.09	0.33	0.09	0.002	-0.54	-0.21	0.05	0.38	0.41	6569	9.9
3	O024	1.0006	0.0141	1.84	0.70	0.21	0.27	0.08	0.33	0.10	0.001	-0.53	-0.19	0.02	0.36	0.43	6581	9.9
4	O024	1.0006	0.0139	1.84	0.70	0.21	0.27	0.09	0.32	0.11	0.002	-0.53	-0.19	0.03	0.35	0.43	6542	9.9
5	O024	1.0006	0.0143	1.81	0.71	0.22	0.27	0.09	0.32	0.10	0.003	-0.53	-0.19	0.03	0.37	0.42	6531	9.9
6	O024	1.0006	0.0141	1.83	0.70	0.21	0.26	0.09	0.34	0.10	0.001	-0.53	-0.19	0.03	0.38	0.40	6544	9.9
7	O024	1.0006	0.0141	1.84	0.71	0.21	0.27	0.09	0.33	0.10	0.002	-0.53	-0.19	0.02	0.37	0.43	6544	9.9
8	O024	1.0006	0.0140	1.82	0.72	0.22	0.27	0.09	0.33	0.10	0.002	-0.56	-0.18	0.03	0.38	0.42	6560	9.9
9	O024	1.0006	0.0141	1.84	0.72	0.22	0.26	0.08	0.33	0.11	0.002	-0.54	-0.19	0.01	0.37	0.44	6552	9.9
10	O024	1.0006	0.0140	1.81	0.72	0.22	0.27	0.09	0.33	0.10	0.001	-0.54	-0.20	0.03	0.40	0.41	6554	9.9
11	O024	1.0006	0.0142	1.83	0.70	0.22	0.27	0.09	0.33	0.10	0.002	-0.54	-0.19	0.03	0.38	0.41	6512	9.9
12	O024	1.0006	0.0138	1.85	0.72	0.21	0.27	0.09	0.33	0.10	0.002	-0.54	-0.20	0.03	0.37	0.43	6542	9.9
13	O024	1.0006	0.0138	1.85	0.72	0.21	0.27	0.08	0.33	0.11	0.002	-0.53	-0.20	0.01	0.37	0.43	6541	9.9

Form	Seq	Logit	S.E.	Mean Score	Item Total Corr	Proportion Selecting						Point Biserial Correlation for					Number Tested	Rasch Fit (Outfit t)
						0	1	2	3	4	Omitted	0	1	2	3	4		
14	O024	1.0006	0.0142	1.83	0.70	0.22	0.27	0.09	0.33	0.10	0.002	-0.52	-0.19	0.02	0.37	0.42	6518	9.9
15	O024	1.0006	0.0141	1.82	0.71	0.22	0.27	0.09	0.33	0.10	0.002	-0.54	-0.19	0.03	0.37	0.42	6519	9.9
16	O024	1.0006	0.0141	1.81	0.71	0.21	0.28	0.09	0.32	0.10	0.002	-0.53	-0.19	0.01	0.38	0.41	6511	9.9
17	O024	1.0006	0.0142	1.84	0.71	0.20	0.28	0.09	0.33	0.10	0.002	-0.52	-0.21	0.04	0.37	0.42	6531	9.9
18	O024	1.0006	0.0142	1.83	0.71	0.22	0.27	0.09	0.33	0.10	0.002	-0.55	-0.18	0.03	0.38	0.41	6514	9.9
19	O024	1.0006	0.0142	1.85	0.71	0.21	0.27	0.09	0.32	0.11	0.001	-0.53	-0.20	0.02	0.36	0.43	6559	9.9
20	O024	1.0006	0.0141	1.83	0.71	0.22	0.27	0.09	0.33	0.10	0.001	-0.54	-0.19	0.04	0.38	0.41	6534	9.9
1	O115	1.3819	0.0141	1.40	0.82	0.34	0.24	0.16	0.18	0.08	0.002	-0.70	-0.07	0.22	0.47	0.38	6942	-2.5
2	O115	1.3819	0.0144	1.45	0.81	0.33	0.24	0.17	0.18	0.08	0.002	-0.70	-0.07	0.22	0.45	0.38	6569	-8.3
3	O115	1.3819	0.0144	1.47	0.82	0.32	0.25	0.16	0.18	0.09	0.001	-0.70	-0.08	0.21	0.45	0.40	6581	0.3
4	O115	1.3819	0.0143	1.46	0.82	0.32	0.25	0.17	0.18	0.08	0.002	-0.70	-0.07	0.22	0.45	0.39	6542	9.9
5	O115	1.3819	0.0145	1.47	0.82	0.32	0.24	0.17	0.18	0.09	0.003	-0.69	-0.08	0.20	0.45	0.40	6531	9.9
6	O115	1.3819	0.0143	1.45	0.80	0.33	0.24	0.16	0.17	0.09	0.001	-0.69	-0.08	0.23	0.43	0.39	6544	9.9
7	O115	1.3819	0.0145	1.51	0.82	0.32	0.23	0.17	0.18	0.10	0.002	-0.69	-0.10	0.20	0.44	0.42	6544	6.7
8	O115	1.3819	0.0143	1.48	0.82	0.33	0.23	0.17	0.18	0.09	0.002	-0.70	-0.08	0.20	0.45	0.42	6560	0.8
9	O115	1.3819	0.0144	1.46	0.81	0.33	0.23	0.17	0.18	0.09	0.002	-0.70	-0.07	0.22	0.44	0.40	6552	9.9
10	O115	1.3819	0.0144	1.43	0.81	0.34	0.24	0.16	0.18	0.08	0.001	-0.70	-0.07	0.22	0.46	0.37	6554	-4.6
11	O115	1.3819	0.0144	1.46	0.81	0.33	0.23	0.17	0.18	0.09	0.002	-0.70	-0.07	0.22	0.44	0.39	6512	-6.1
12	O115	1.3819	0.0142	1.43	0.81	0.35	0.23	0.16	0.17	0.09	0.002	-0.70	-0.05	0.21	0.44	0.41	6542	-1.5
13	O115	1.3819	0.0142	1.46	0.82	0.33	0.24	0.16	0.18	0.09	0.002	-0.69	-0.09	0.21	0.46	0.40	6541	9.9
14	O115	1.3819	0.0144	1.46	0.81	0.34	0.22	0.17	0.18	0.09	0.002	-0.70	-0.07	0.21	0.44	0.41	6518	9.9
15	O115	1.3819	0.0143	1.42	0.82	0.34	0.23	0.16	0.18	0.08	0.002	-0.70	-0.07	0.22	0.45	0.39	6519	9.9
16	O115	1.3819	0.0145	1.47	0.81	0.33	0.24	0.16	0.18	0.09	0.002	-0.69	-0.09	0.21	0.45	0.39	6511	7.8
17	O115	1.3819	0.0145	1.44	0.81	0.34	0.23	0.17	0.18	0.08	0.002	-0.70	-0.07	0.23	0.45	0.38	6531	2.6
18	O115	1.3819	0.0145	1.44	0.81	0.33	0.24	0.16	0.17	0.09	0.002	-0.70	-0.05	0.20	0.44	0.40	6514	9.9
19	O115	1.3819	0.0145	1.46	0.82	0.34	0.23	0.15	0.18	0.10	0.001	-0.71	-0.07	0.21	0.45	0.41	6559	4.4
20	O115	1.3819	0.0144	1.43	0.81	0.34	0.24	0.16	0.18	0.08	0.001	-0.70	-0.06	0.22	0.45	0.39	6534	9.9

Appendix EE:

**Pennsylvania Performance Levels Validation Meeting
Agenda**

Agenda

**Pennsylvania Reading Performance Levels Validation Meeting
June 22 – 23, 2005
Harrisburg, Pennsylvania**

Wednesday, June 22, 2005

<i>7:30 am – 8:30 am</i>	Check-in and breakfast – <i>Pennsylvania Ballroom</i>
<i>8:30 am – 9:00 am</i>	Introduction to Standard Setting. Ray Young – PDE introduction. David Chayer – DRC introduction. Shaundra Sand – Reimbursement and other administrative procedures.
<i>9:00 am – 9:45 am</i>	Bookmark Method Training
<i>9:45 am – 10:15 am</i>	Participants work on sample Bookmark process and materials.
<i>10:15 am – 10:30 am</i>	Morning Break – Participants move to breakout rooms by grade levels (3/5 and 8/11)
<i>10:30 am – 12:00 pm</i>	Round 1 – Individual Placements (grade 5 or 8)
<i>12:00 pm – 1:00 pm</i>	Lunch – <i>Pennsylvania Ballroom</i>
<i>1:00 pm – 2:00 pm</i>	Round 2 – Group Discussion and Revisions (grade 5 or 8)
<i>2:00 pm – 2:30 pm</i>	Break/Analysis
<i>2:30 pm – 3:30 pm</i>	Round 3 – Group Discussion of Impacts and Final Revisions (grade 5 or 8)

Thursday, June 23, 2005

<i>7:30 am – 8:00 am</i>	Check-in and breakfast – <i>Pennsylvania Ballroom</i>
<i>8:00 am – 9:00 am</i>	Round 1 – Individual Placements (grade 3 or 11)
<i>9:00 am – 9:30 am</i>	Break/Analysis
<i>9:30 am – 10:30 am</i>	Round 2 – Group Discussion and Revisions (grade 3 or 11)
<i>10:30 am – 11:00 am</i>	Break/Analysis
<i>11:00 am – 12:00 pm</i>	Round 3 – Group Discussion of Impacts and Final Revisions (grade 3 or 11)
<i>12:00 pm – 1:00 pm</i>	Lunch – <i>Pennsylvania Ballroom</i>
<i>1:00 pm – 2:30 pm</i>	Large Group Discussion (all reading panelists) of Impacts for Grades 3, 5, 8 and 11 – <i>if necessary</i>

**Pennsylvania Mathematics Performance Levels Validation Meeting
June 23 – 24, 2005
Harrisburg, Pennsylvania**

Thursday, June 23, 2005

7:30 am – 8:30 am	Check-in and breakfast – <i>Pennsylvania Ballroom</i>
8:30 am – 9:00 am	Introduction to Standard Setting. Ray Young – PDE introduction. David Chayer – DRC introduction. Shaundra Sand – Reimbursement and other administrative procedures.
9:00 am – 9:45 am	Bookmark Method Training
9:45 am – 10:15 am	Participants work on sample Bookmark process and materials.
10:15 am – 10:30 am	Morning Break – Participants move to breakout rooms by grade levels (3/5 and 8/11)
10:30 am – 12:00 pm	Round 1 – Individual Placements (grade 5 or 8)
12:00 pm – 1:00 pm	Lunch – <i>Pennsylvania Ballroom</i>
1:00 pm – 2:00 pm	Round 2 – Group Discussion and Revisions (grade 5 or 8)
2:00 pm – 2:30 pm	Break/Analysis
2:30 pm – 3:30 pm	Round 3 – Group Discussion of Impacts and Final Revisions (grade 5 or 8)

Friday, June 24, 2005

7:30 am – 8:00 am	Check-in and breakfast – <i>Pennsylvania Ballroom</i>
8:00 am – 9:00 am	Round 1 – Individual Placements (grade 3 or 11)
9:00 am – 9:30 am	Break/Analysis
9:30 am – 10:30 am	Round 2 – Group Discussion and Revisions (grade 3 or 11)
10:30 am – 11:00 am	Break/Analysis
11:00 am – 12:00 pm	Round 3 – Group Discussion of Impacts and Final Revisions (grade 3 or 11)
12:00 pm – 1:00 pm	Lunch – <i>Pennsylvania Ballroom</i>
1:00 pm – 2:30 pm	Large Group Discussion (all mathematics panelists) of Impacts for Grades 3, 5, 8 and 11 – <i>if necessary</i>

Appendix FF:
Standard Errors by Round

Standard Errors by Round

Reading Grade 3

Subject Grade		Round 1 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	3	11	-1.1852	32	-0.4695	40	0.2835
Reading	3	8	-1.3525	21	-0.7576	42	0.7017
Reading	3	12	-1.1015	32	-0.4695	40	0.2835
Reading	3	10	-1.2828	30	-0.5252	38	0.1673
Reading	3	12	-1.1015	39	0.2509	43	0.8505
Reading	3	12	-1.1015	32	-0.4695	39	0.2509
Reading	3	13	-1.0922	31	-0.5252	40	0.2835
Reading	3	10	-1.2828	32	-0.4695	38	0.1673
Reading	3	10	-1.2828	31	-0.5252	43	0.8505
Reading	3	13	-1.0922	29	-0.6089	44	1.2223
Reading	3	8	-1.3525	21	-0.7576	43	0.8505
Reading	3	10	-1.2828	32	-0.4695	43	0.8505
Reading	3	10	-1.2828	28	-0.6275	40	0.2835
Median		10.0	-1.2828	31.0	-0.5252	40.0	0.2835
SE_{Median}			0.0362		0.0858		0.1229
Subject Grade		Round 2 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	3	10	-1.2828	28	-0.6275	43	0.8505
Reading	3	10	-1.2828	23	-0.7483	42	0.7017
Reading	3	10	-1.2828	32	-0.4695	43	0.8505
Reading	3	10	-1.2828	25	-0.6832	42	0.7017
Reading	3	8	-1.3525	32	-0.4695	43	0.8505
Reading	3	8	-1.3525	24	-0.7018	43	0.8505
Reading	3	10	-1.2828	31	-0.5252	44	1.2223
Reading	3	8	-1.3525	29	-0.6089	44	1.2223
Reading	3	9	-1.3060	30	-0.5252	44	1.2223
Reading	3	8	-1.3525	29	-0.6089	44	1.2223
Reading	3	8	-1.3525	23	-0.7483	43	0.8505
Reading	3	8	-1.3525	32	-0.4695	43	0.8505
Reading	3	10	-1.2828	23	-0.7483	42	0.7017
Median		9.0	-1.3060	29.0	-0.6089	43.0	0.8505
SE_{Median}			0.0122		0.0382		0.0734
Subject Grade		Round 3 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	3	10	-1.2828	28	-0.6275	44	1.2223
Reading	3	8	-1.3525	21	-0.7576	43	0.8505
Reading	3	10	-1.2828	32	-0.4695	43	0.8505
Reading	3	8	-1.3525	23	-0.7483	42	0.7017
Reading	3	8	-1.3525	32	-0.4695	43	0.8505
Reading	3	8	-1.3525	24	-0.7018	43	0.8505
Reading	3	10	-1.2828	31	-0.5252	44	1.2223
Reading	3	8	-1.3525	26	-0.6740	43	0.8505
Reading	3	8	-1.3525	26	-0.6740	44	1.2223
Reading	3	8	-1.3525	21	-0.7576	44	1.2223
Reading	3	8	-1.3525	21	-0.7576	43	0.8505
Reading	3	8	-1.3525	28	-0.6275	43	0.8505
Reading	3	8	-1.3525	23	-0.7483	42	0.7017
Median		8.0	-1.3525	26.0	-0.6740	43.0	0.8505
SE_{Median}			0.0106		0.0374		0.0701

Math Grade 3

		Round 1 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	3	16	-1.6102	34	-0.9167	54	-0.1642
Math	3	14	-1.6938	32	-0.9954	58	0.0768
Math	3	21	-1.3052	44	-0.6216	58	0.0768
Math	3	18	-1.5757	41	-0.7790	58	0.0768
Math	3	20	-1.3692	45	-0.6019	58	0.0768
Math	3	20	-1.3692	34	-0.9167	58	0.0768
Math	3	13	-1.7036	32	-0.9954	58	0.0768
Math	3	13	-1.7036	40	-0.7986	57	0.0375
Math	3	20	-1.3692	45	-0.6019	58	0.0768
Math	3	18	-1.5757	29	-1.1134	54	-0.1642
Math	3	18	-1.5757	36	-0.8675	54	-0.1642
Math	3	13	-1.7036	29	-1.1134	51	-0.2871
Math	3	18	-1.5757	29	-1.1134	53	-0.2330
Math	3	21	-1.3052	48	-0.4839	56	-0.0265
Median		18.0	-1.5757	35.0	-0.8872	57.5	0.0375
SE_{Median}			0.0518		0.0705		0.0460
		Round 2 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	14	-1.6938	30	-1.1085	58	0.0768
Math	3	17	-1.5954	31	-1.0937	56	-0.0265
Math	3	13	-1.7036	30	-1.1085	51	-0.2871
Math	3	17	-1.5954	31	-1.0937	56	-0.0265
Math	3	17	-1.5954	31	-1.0937	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	57	0.0375
Math	3	17	-1.5954	31	-1.0937	58	0.0768
Math	3	13	-1.7036	30	-1.1085	51	-0.2871
Math	3	13	-1.7036	30	-1.1085	51	-0.2871
Math	3	13	-1.7036	30	-1.1085	51	-0.2871
Math	3	13	-1.7036	31	-1.0937	51	-0.2871
Math	3	13	-1.7036	29	-1.1134	51	-0.2871
Median		13.0	-1.7036	30.0	-1.1085	56.0	-0.0265
SE_{Median}			0.0169		0.0026		0.0584
		Round 3 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	17	-1.5954	31	-1.0937	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	20	-1.3692	31	-1.0937	58	0.0768
Math	3	17	-1.5954	31	-1.0937	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	20	-1.3692	32	-0.9954	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	13	-1.7036	30	-1.1085	58	0.0768
Math	3	18	-1.5757	30	-1.1085	58	0.0768
Median		13.0	-1.7036	30.0	-1.1085	58.0	0.0768
SE_{Median}			0.0405		0.0100		0.0000

Reading Grade 5

Subject Grade		Round 1 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	5	18	0.2861	35	1.1893	42	1.7556
Reading	5	18	0.2861	33	1.0846	46	2.2964
Reading	5	15	0.2417	25	0.7924	47	2.5100
Reading	5	17	0.2486	25	0.7924	42	1.7556
Reading	5	15	0.2417	27	0.8509	45	2.0900
Reading	5	21	0.5730	32	1.0697	43	1.9202
Reading	5	20	0.5310	41	1.6817	47	2.5100
Reading	5	14	0.1435	27	0.8509	42	1.7556
Reading	5	15	0.2417	27	0.8509	39	1.3151
Reading	5	17	0.2486	27	0.8509	43	1.9202
Reading	5	15	0.2417	28	0.8693	43	1.9202
Reading	5	16	0.2429	27	0.8509	42	1.7556
Reading	5	16	0.2429	27	0.8509	42	1.7556
Median		16.0	0.2429	27.0	0.8509	43.0	1.9202
SE_{Median}			0.0422		0.0861		0.1170
Subject Grade		Round 2 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	5	17	0.2486	25	0.7924	45	2.0900
Reading	5	16	0.2429	25	0.7924	46	2.2964
Reading	5	15	0.2417	25	0.7924	45	2.0900
Reading	5	16	0.2429	26	0.7956	42	1.7556
Reading	5	16	0.2429	27	0.8509	45	2.0900
Reading	5	17	0.2486	26	0.7956	43	1.9202
Reading	5	16	0.2429	27	0.8509	47	2.5100
Reading	5	15	0.2417	25	0.7924	42	1.7556
Reading	5	15	0.2417	25	0.7924	41	1.6817
Reading	5	17	0.2486	27	0.8509	42	1.7556
Reading	5	15	0.2417	26	0.7956	44	1.9369
Reading	5	16	0.2429	25	0.7924	41	1.6817
Reading	5	15	0.2417	27	0.8509	40	1.4312
Median		16.0	0.2429	26.0	0.7956	43.0	1.9202
SE_{Median}			0.0010		0.0096		0.1008
Subject Grade		Round 3 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Reading	5	13	0.0300	25	0.7924	47	2.5100
Reading	5	13	0.0300	25	0.7924	47	2.5100
Reading	5	15	0.2417	25	0.7924	47	2.5100
Reading	5	13	0.0300	25	0.7924	47	2.5100
Reading	5	13	0.0300	26	0.7956	46	2.2964
Reading	5	15	0.2417	26	0.7956	45	2.0900
Reading	5	14	0.1435	27	0.8509	47	2.5100
Reading	5	13	0.0300	27	0.8509	46	2.2964
Reading	5	12	0.0035	25	0.7924	45	2.0900
Reading	5	13	0.0300	27	0.8509	45	2.0900
Reading	5	13	0.0300	25	0.7924	47	2.5100
Reading	5	14	0.1435	26	0.7956	45	2.0900
Reading	5	12	0.0035	27	0.8509	45	2.0900
Median		13.0	0.0300	26.0	0.7956	46.0	2.2964
SE_{Median}			0.0300		0.0096		0.0696

Math Grade 5

		<i>Round 1 Levels</i>					
<i>Subject</i>	<i>Grade</i>	<i>Basic</i>	<i>RID</i>	<i>Proficient</i>	<i>RID</i>	<i>Advanced</i>	<i>RID</i>
Math	5	21	-0.0169	43	0.8654	60	1.5712
Math	5	23	0.1731	41	0.8012	59	1.4969
Math	5	20	-0.0275	40	0.7956	58	1.3400
Math	5	18	-0.0811	43	0.8654	61	1.7255
Math	5	24	0.1872	43	0.8654	60	1.5712
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	24	0.1872	42	0.8395	60	1.5712
Math	5	21	-0.0169	42	0.8395	57	1.3030
Math	5	18	-0.0811	42	0.8395	59	1.4969
Math	5	22	0.0163	42	0.8395	60	1.5712
Math	5	22	0.0163	43	0.8654	59	1.4969
Math	5	21	-0.0169	42	0.8395	52	1.1335
Math	5	25	0.2200	41	0.8012	52	1.1335
Math	5	24	0.1872	42	0.8395	58	1.3400
Median		21.5	-0.0169	42.0	0.8395	59.0	1.4969
SE_{Median}			0.0373		0.0084		0.0631
		<i>Round 2 Levels</i>					
<i>Subject</i>	<i>Grade</i>	<i>Basic</i>	<i>RID</i>	<i>Proficient</i>	<i>RID</i>	<i>Advanced</i>	<i>RID</i>
Math	5	21	-0.0169	42	0.8395	59	1.4969
Math	5	21	-0.0169	41	0.8012	59	1.4969
Math	5	21	-0.0169	41	0.8012	58	1.3400
Math	5	18	-0.0811	43	0.8654	59	1.4969
Math	5	21	-0.0169	42	0.8395	59	1.4969
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	21	-0.0169	42	0.8395	59	1.4969
Math	5	21	-0.0169	41	0.8012	59	1.4969
Math	5	18	-0.0811	42	0.8395	58	1.3400
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	21	-0.0169	42	0.8395	58	1.3400
Math	5	21	-0.0169	41	0.8012	58	1.3400
Math	5	21	-0.0169	42	0.8395	58	1.3400
Median		21.0	-0.0169	42.0	0.8395	59.0	1.4969
SE_{Median}			0.0078		0.0085		0.0491
		<i>Round 3 Levels</i>					
<i>Subject</i>	<i>Grade</i>	<i>Basic</i>	<i>RID</i>	<i>Proficient</i>	<i>RID</i>	<i>Advanced</i>	<i>RID</i>
Math	5	21	-0.0169	42	0.8395	59	1.4969
Math	5	21	-0.0169	41	0.8012	61	1.7255
Math	5	18	-0.0811	41	0.8012	61	1.7255
Math	5	18	-0.0811	42	0.8395	61	1.7255
Math	5	20	-0.0275	42	0.8395	61	1.7255
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	21	-0.0169	42	0.8395	61	1.7255
Math	5	18	-0.0811	41	0.8012	61	1.7255
Math	5	18	-0.0811	42	0.8395	61	1.7255
Math	5	21	-0.0169	43	0.8654	61	1.7255
Math	5	18	-0.0811	43	0.8654	61	1.7255
Math	5	18	-0.0811	42	0.8395	61	1.7255
Math	5	18	-0.0811	41	0.8012	61	1.7255
Math	5	18	-0.0811	42	0.8395	61	1.7255
Median		18.0	-0.0811	42.0	0.8395	61.0	1.7255
SE_{Median}			0.0108		0.0080		0.0205

Reading Grade 8

		Round 1 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	8	13	-0.5000	27	0.3753	47	1.7488
Reading	8	15	-0.3088	32	0.5620	46	1.7400
Reading	8	17	-0.2097	30	0.4700	45	1.4758
Reading	8	19	-0.0657	29	0.4172	45	1.4758
Reading	8	17	-0.2097	32	0.5620	48	1.7700
Reading	8	13	-0.5000	35	0.8026	45	1.4758
Reading	8	17	-0.2097	30	0.4700	46	1.7400
Reading	8	17	-0.2097	30	0.4700	43	1.1921
Reading	8	17	-0.2097	32	0.5620	47	1.7488
Reading	8	17	-0.2097	33	0.7124	45	1.4758
Reading	8	11	-0.6366	23	0.1542	40	1.0448
Reading	8	14	-0.3700	36	0.9200	43	1.1921
Reading	8	14	-0.3700	32	0.5620	45	1.4758
Reading	8	18	-0.1422	34	0.7292	46	1.7400
Reading	8	7	-0.8126	24	0.2432	33	0.7124
	Median	17.0	-0.2097	32.0	0.5620	45.0	1.4758
	SE_{Median}		0.0659		0.0655		0.1013
		Round 2 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	8	13	-0.5000	30	0.4700	44	1.2460
Reading	8	13	-0.5000	32	0.5620	47	1.7488
Reading	8	14	-0.3700	29	0.4172	45	1.4758
Reading	8	20	-0.0114	29	0.4172	43	1.1921
Reading	8	17	-0.2097	32	0.5620	45	1.4758
Reading	8	13	-0.5000	35	0.8026	44	1.2460
Reading	8	17	-0.2097	32	0.5620	48	1.7700
Reading	8	17	-0.2097	31	0.5309	44	1.2460
Reading	8	14	-0.3700	30	0.4700	45	1.4758
Reading	8	13	-0.5000	29	0.4172	44	1.2460
Reading	8	11	-0.6366	33	0.7124	43	1.1921
Reading	8	14	-0.3700	34	0.7292	43	1.1921
Reading	8	13	-0.5000	30	0.4700	47	1.7488
Reading	8	17	-0.2097	33	0.7124	47	1.7488
Reading	8	11	-0.6366	31	0.5309	47	1.7488
	Median	14.0	-0.3700	31.0	0.5309	45.0	1.4758
	SE_{Median}		0.0584		0.0407		0.0787
		Round 3 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	8	13	-0.5000	30	0.4700	44	1.2460
Reading	8	13	-0.5000	32	0.5620	45	1.4758
Reading	8	14	-0.3700	29	0.4172	47	1.7488
Reading	8	20	-0.0114	29	0.4172	47	1.7488
Reading	8	17	-0.2097	32	0.5620	48	1.7700
Reading	8	13	-0.5000	32	0.5620	44	1.2460
Reading	8	17	-0.2097	30	0.4700	49	1.9216
Reading	8	17	-0.2097	31	0.5309	45	1.4758
Reading	8	14	-0.3700	30	0.4700	47	1.7488
Reading	8	13	-0.5000	29	0.4172	49	1.9216
Reading	8	13	-0.5000	33	0.7124	48	1.7700
Reading	8	14	-0.3700	34	0.7292	48	1.7700
Reading	8	13	-0.5000	30	0.4700	47	1.7488
Reading	8	17	-0.2097	33	0.7124	47	1.7488
Reading	8	11	-0.6366	31	0.5309	46	1.7400
	Median	14.0	-0.3700	31.0	0.5309	47.0	1.7488
	SE_{Median}		0.0549		0.0347		0.0685

Math Grade 8

Subject Grade		Round 1 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Math	8	10	-0.6402	27	-0.0069	57	1.0549
Math	8	14	-0.4975	48	0.6794	64	1.7000
Math	8	16	-0.3184	45	0.6253	64	1.7000
Math	8	8	-0.8364	32	0.1160	57	1.0549
Math	8	16	-0.3184	34	0.2019	49	0.7161
Math	8	15	-0.3561	36	0.2501	59	1.1799
Math	8	13	-0.5391	32	0.1160	59	1.1799
Math	8	16	-0.3184	43	0.4922	64	1.7000
Math	8	16	-0.3184	37	0.2838	58	1.1298
Math	8	11	-0.6383	34	0.2019	58	1.1298
Math	8	16	-0.3184	45	0.6253	62	1.4337
Math	8	16	-0.3184	42	0.4800	62	1.4337
Math	8	16	-0.3184	39	0.4134	59	1.1799
Median		16.0	-0.3184	37.0	0.2838	59.0	1.1799
SE_{Median}			0.0602		0.0774		0.1038
Subject Grade		Round 2 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Math	8	11	-0.6383	32	0.1160	57	1.0549
Math	8	11	-0.6383	46	0.6322	59	1.1799
Math	8	16	-0.3184	39	0.4134	61	1.3657
Math	8	11	-0.6383	32	0.1160	59	1.1799
Math	8	14	-0.4975	32	0.1160	53	0.8800
Math	8	15	-0.3561	32	0.1160	59	1.1799
Math	8	14	-0.4975	32	0.1160	57	1.0549
Math	8	15	-0.3561	32	0.1160	57	1.0549
Math	8	12	-0.5547	33	0.1920	58	1.1298
Math	8	11	-0.6383	32	0.1160	53	0.8800
Math	8	15	-0.3561	36	0.2501	59	1.1799
Math	8	11	-0.6383	34	0.2019	53	0.8800
Math	8	16	-0.3184	39	0.4134	59	1.1799
Median		14.0	-0.4975	32.0	0.1160	58.0	1.1298
SE_{Median}			0.0477		0.0569		0.0506
Subject Grade		Round 3 Levels					
		Basic	RID	Proficient	RID	Advanced	RID
Math	8	8	-0.8364	32	0.1160	61	1.3657
Math	8	11	-0.6383	41	0.4518	59	1.1799
Math	8	13	-0.5391	32	0.1160	64	1.7000
Math	8	8	-0.8364	32	0.1160	64	1.7000
Math	8	11	-0.6383	32	0.1160	57	1.0549
Math	8	11	-0.6383	32	0.1160	59	1.1799
Math	8	13	-0.5391	32	0.1160	59	1.1799
Math	8	11	-0.6383	32	0.1160	64	1.7000
Math	8	8	-0.8364	32	0.1160	58	1.1298
Math	8	8	-0.8364	31	0.1107	53	0.8800
Math	8	11	-0.6383	44	0.4962	62	1.4337
Math	8	11	-0.6383	32	0.1160	57	1.0549
Math	8	8	-0.8364	32	0.1160	63	1.5700
Median		11.0	-0.6383	32.0	0.1160	59.0	1.1799
SE_{Median}			0.0411		0.0469		0.0973

Reading Grade 11

		Round 1 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	11	16	-0.1765	27	0.6600	48	1.8600
Reading	11	15	-0.2378	25	0.4127	46	1.6553
Reading	11	18	-0.1000	25	0.4127	48	1.8600
Reading	11	21	0.1724	38	1.1728	45	1.4917
Reading	11	12	-0.5797	25	0.4127	48	1.8600
Reading	11	16	-0.1765	25	0.4127	47	1.7500
Reading	11	18	-0.1000	26	0.5931	48	1.8600
Reading	11	15	-0.2378	25	0.4127	45	1.4917
Reading	11	17	-0.1453	23	0.1907	47	1.7500
Reading	11	15	-0.2378	23	0.1907	41	1.3011
Reading	11	17	-0.1453	28	0.6606	46	1.6553
Reading	11	18	-0.1000	29	0.7198	50	2.8700
Reading	11	17	-0.1453	22	0.1883	45	1.4917
Reading	11	17	-0.1453	27	0.6600	46	1.6553
Reading	11	17	-0.1453	32	0.8256	48	1.8600
Median		17.0	-0.1453	25.0	0.4127	47.0	1.7500
SE_{Median}			0.0486		0.0868		0.1141
		Round 2 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	11	14	-0.2800	23	0.1907	48	1.8600
Reading	11	13	-0.4422	23	0.1907	48	1.8600
Reading	11	15	-0.2378	25	0.4127	48	1.8600
Reading	11	17	-0.1453	26	0.5931	46	1.6553
Reading	11	13	-0.4422	26	0.5931	48	1.8600
Reading	11	15	-0.2378	25	0.4127	47	1.7500
Reading	11	16	-0.1765	26	0.5931	48	1.8600
Reading	11	16	-0.1765	28	0.6606	47	1.7500
Reading	11	17	-0.1453	22	0.1883	47	1.7500
Reading	11	15	-0.2378	23	0.1907	48	1.8600
Reading	11	17	-0.1453	25	0.4127	45	1.4917
Reading	11	17	-0.1453	29	0.7198	50	2.8700
Reading	11	16	-0.1765	22	0.1883	45	1.4917
Reading	11	17	-0.1453	25	0.4127	48	1.8600
Reading	11	17	-0.1453	30	0.8019	48	1.8600
Median		16.0	-0.1765	25.0	0.4127	48.0	1.8600
SE_{Median}			0.0326		0.0694		0.1010
		Round 3 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Reading	11	13	-0.4422	23	0.1907	48	1.8600
Reading	11	12	-0.5797	23	0.1907	48	1.8600
Reading	11	13	-0.4422	25	0.4127	48	1.8600
Reading	11	15	-0.2378	26	0.5931	46	1.6553
Reading	11	12	-0.5797	25	0.4127	48	1.8600
Reading	11	13	-0.4422	25	0.4127	47	1.7500
Reading	11	13	-0.4422	26	0.5931	48	1.8600
Reading	11	13	-0.4422	25	0.4127	45	1.4917
Reading	11	11	-0.5937	22	0.1883	47	1.7500
Reading	11	13	-0.4422	23	0.1907	48	1.8600
Reading	11	15	-0.2378	28	0.6606	45	1.4917
Reading	11	15	-0.2378	29	0.7198	50	2.8700
Reading	11	15	-0.2378	22	0.1883	48	1.8600
Reading	11	15	-0.2378	25	0.4127	48	1.8600
Reading	11	15	-0.2378	30	0.8019	48	1.8600
Median		13.0	-0.4422	25.0	0.4127	48.0	1.8600
SE_{Median}			0.0448		0.0680		0.1007

Math Grade 11

		Round 1 Levels					
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	11	8	-0.8705	39	0.4592	57	1.0874
Math	11	7	-0.8912	30	0.0854	50	0.8403
Math	11	7	-0.8912	42	0.5152	61	1.6921
Math	11	12	-0.5054	42	0.5152	60	1.6200
Math	11	17	-0.4300	39	0.4592	60	1.6200
Math	11	7	-0.8912	36	0.3031	54	0.9500
Math	11	8	-0.8705	34	0.1800	54	0.9500
Math	11	15	-0.4420	42	0.5152	58	1.3800
Math	11	7	-0.8912	36	0.3031	56	1.0665
Math	11	7	-0.8912	36	0.3031	63	1.9221
Math	11	9	-0.6897	34	0.1800	56	1.0665
Math	11	15	-0.4420	40	0.5113	58	1.3800
Math	11	7	-0.8912	42	0.5152	63	1.9221
Median		8.0	-0.8705	39.0	0.4592	58.0	1.3800
SE_{Median}			0.0711		0.0537		0.1319
Round 2 Levels							
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	11	7	-0.8912	34	0.1800	54	0.9500
Math	11	7	-0.8912	32	0.1581	50	0.8403
Math	11	7	-0.8912	36	0.3031	58	1.3800
Math	11	7	-0.8912	35	0.2078	54	0.9500
Math	11	7	-0.8912	36	0.3031	54	0.9500
Math	11	7	-0.8912	34	0.1800	54	0.9500
Math	11	7	-0.8912	34	0.1800	54	0.9500
Math	11	10	-0.6494	37	0.3725	56	1.0665
Math	11	7	-0.8912	36	0.3031	56	1.0665
Math	11	7	-0.8912	34	0.1800	56	1.0665
Math	11	7	-0.8912	34	0.1800	56	1.0665
Math	11	7	-0.8912	34	0.1800	55	1.0620
Math	11	7	-0.8912	42	0.5152	63	1.9221
Median		7.0	-0.8912	34.0	0.1800	55.0	1.0620
SE_{Median}			0.0233		0.0366		0.0972
Round 3 Levels							
Subject	Grade	Basic	RID	Proficient	RID	Advanced	RID
Math	11	7	-0.8912	29	0.0600	55	1.0620
Math	11	7	-0.8912	25	-0.0200	50	0.8403
Math	11	7	-0.8912	33	0.1708	56	1.0665
Math	11	7	-0.8912	31	0.1501	54	0.9500
Math	11	7	-0.8912	31	0.1501	54	0.9500
Math	11	7	-0.8912	30	0.0854	54	0.9500
Math	11	7	-0.8912	28	0.0516	50	0.8403
Math	11	8	-0.8705	31	0.1501	56	1.0665
Math	11	7	-0.8912	30	0.0854	56	1.0665
Math	11	7	-0.8912	31	0.1501	56	1.0665
Math	11	7	-0.8912	30	0.0854	56	1.0665
Math	11	7	-0.8912	29	0.0600	54	0.9500
Math	11	7	-0.8912	39	0.4592	58	1.3800
Median		7.0	-0.8912	30.0	0.0854	55.0	1.0620
SE_{Median}			0.0020		0.0396		0.0477

Appendix GG:

Panelists' Survey Evaluation Results Summary

Panelists' Survey Evaluation Results Summary

Pennsylvania Performance Levels Validation June 22-23, 2005

Evaluation Form Results Reading

The purpose of this Evaluation Form is to obtain your opinions about the performance levels validation. Your opinions will provide a basis for evaluating both the materials and the training. We request that you **not** put your name on this form. We want your opinions to remain anonymous.

1. Check the column that most accurately reflects your opinion regarding the usefulness of the following materials used in the performance levels validation:

Materials	Not Useful	Partially Useful	Useful	Very Useful
Performance Level Descriptors N=24	0%	0%	37.5%	62.5%
Item Map N=24	0%	8.3%	20.8%	70.8%
Items N=24	0%	0%	4.2%	95.8%
Samples of Student Responses N=24	0%	0%	16.7%	79.2%
Rubrics N=24	0%	20.8%	45.8%	25.0%

2. Indicate the importance of the following factors in your classifications:

Factor	Not Important	Somewhat Important	Important	Very Important
Descriptions of Below Basic, Basic, Proficient and Advanced N=24	0%	0%	25.0%	75.0%
Your perceptions of the difficulty of the items N=24	0%	4.2%	29.2%	66.7%
Your own classroom experience N=24	0%	12.5%	25.0%	58.3%
Initial cut point placement N=24	0%	16.7%	50.0%	33.3%
Panel discussions N=24	0%	4.2%	16.7%	79.2%
The initial cut point placement of the other panelists N=24	0%	12.5%	45.8%	41.7%

3. Check the column that reflects your confidence in your final judgment for the four achievement levels:

Achievement Level	Not Confident	Partially Confident	Confident	Very Confident
Below Basic/Basic N=24	0%	0%	62.5%	33.3%
Basic/Proficient N=24	0%	4.2%	41.7%	50.0%
Proficient/Advanced N=24	0%	0%	41.7%	54.2%

4. How adequate was the training provided on the ordered item booklet and tasks to prepare you for your subsequent judgments? N=24

- a. Not Adequate 0%
- b. Partially Adequate 8.3%
- c. Adequate 37.5%
- d. Very Adequate 50.0%**

5. How would you rate the amount of time used for training? N=24

- a. Too little time 4.2%
- b. About right 91.7%**
- c. Too much time 4.2%

6. How would you rate the amount of time allotted for your judgements **after** the training? N=24

- a. Too little time 0%
- b. About right 87.5%**
- c. Too much time 12.5%

7. How confident are you that the processes and methods used for the performance levels validation will produce a reliable and valid result? N=24

- a. Not Confident 0%
- b. Partially Confident 4.2%
- c. Confident 50.0%**
- d. Very Confident 45.8%

8. How would you rate the facilities? N=24

- a. Not Suitable 0%
- b. Somewhat Suitable 50.0%**
- c. Highly Suitable 50.0%**

**Pennsylvania Performance Levels Validation
June 23-24, 2005**

**Evaluation Form
Math**

The purpose of this Evaluation Form is to obtain your opinions about the performance levels validation. Your opinions will provide a basis for evaluating both the materials and the training. We request that you **not** put your name on this form. We want your opinions to remain anonymous.

1. Check the column that most accurately reflects your opinion regarding the usefulness of the following materials used in the performance levels validation:

Materials	Not Useful	Partially Useful	Useful	Very Useful
Performance Level Descriptors N=24	0%	12.5%	33.3%	54.2%
Item Map N=24	0%	0%	16.7%	83.3%
Items N=24	0%	0%	8.3%	91.7%
Samples of Student Responses N=24	4.2%	8.3%	37.5%	50.0%
Rubrics N=24	4.2%	29.2%	16.7%	50.0%

2. Indicate the importance of the following factors in your classifications:

Factor	Not Important	Somewhat Important	Important	Very Important
Descriptions of Below Basic, Basic, Proficient and Advanced N=23	0%	12.5%	20.8%	62.5%
Your perceptions of the difficulty of the items N=24	0%	0%	37.5%	62.5%
Your own classroom experience N=24	0%	0%	29.2%	70.8%
Initial cut point placement N=24	4.2%	8.3%	37.5%	50.0%
Panel discussions N=24	0%	0%	20.8%	75.0%
The initial cut point placement of the other panelists N=24	0%	8.3%	41.7%	50.0%

3. Check the column that reflects your confidence in your final judgment for the four achievement levels:

Achievement Level	Not Confident	Partially Confident	Confident	Very Confident
Below Basic/Basic N=23	0%	8.3%	20.8%	66.7%
Basic/Proficient N=23	0%	0%	33.3%	62.5%
Proficient/Advanced N=23	0%	0%	29.2%	66.7%

4. How adequate was the training provided on the ordered item booklet and tasks to prepare you for your subsequent judgments? N=24

- e. Not Adequate 0%
- f. Partially Adequate 0%
- g. Adequate 45.8%
- h. Very Adequate 54.2%**

5. How would you rate the amount of time used for training? N=24

- d. Too little time 0%
- e. About right 100%**
- f. Too much time 0%

6. How would you rate the amount of time allotted for your judgements **after** the training? N=24

- d. Too little time 0%
- e. About right 100%**
- f. Too much time 0%

7. How confident are you that the processes and methods used for the performance levels validation will produce a reliable and valid result? N=24

- e. Not Confident 0%
- f. Partially Confident 0%
- g. Confident 29.2%
- h. Very Confident 70.8%**

8. How would you rate the facilities? N=24

- d. Not Suitable 0%
- e. Somewhat Suitable 25.0%
- f. Highly Suitable 75.0%**

Appendix HH:
2005 Linking Item Statistics

2005 Linking Item Statistics

2005 Grade 5 Mathematics Linking Item Statistics								
Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
17	063	C	53	2004	-1.3437	-1.4021	0.893	0.917
17	064	C	54	2004	0.7544	0.8035	0.601	0.636
17	065	C	55	2004	0.3834	0.1414	0.667	0.748
17	066	C	56	2004	-0.1802	0.028	0.757	0.765
17	067	C	57	2004	-0.3281	-0.4181	0.779	0.825
17	068	C	58	2004	-0.6458	-0.3175	0.821	0.812
17	069	C	59	2004	-0.0674	0.3698	0.740	0.712
17	070	C	61	2004	0.6664	0.7689	0.618	0.643
17	071	C	62	2004	0.6426	0.5167	0.622	0.687
17	072	C	63	2004	0.7778	0.801	0.597	0.637
17	073	C	66	2004	0.8048	0.5843	0.591	0.675
18	063	D	55	2004	-1.2504	-0.9328	0.884	0.886
18	064	D	56	2004	0.1389	0.0582	0.705	0.770
18	065	D	57	2004	0.2381	0.7071	0.690	0.664
18	066	D	58	2004	0.8672	1.0822	0.575	0.594
18	067	D	60	2004	0.0111	-0.0074	0.726	0.779
18	068	D	61	2004	1.1977	1.3871	0.513	0.535
18	069	D	62	2004	1.1001	1.049	0.530	0.601
18	070	D	63	2004	-0.9351	-0.9077	0.853	0.884
18	071	D	64	2004	0.0065	0.2715	0.726	0.737
18	072	D	66	2004	-1.1247	-1.0108	0.872	0.893
18	073	F	67	2004	-0.1018	0.1491	0.748	0.756
19	063	E	53	2004	-0.0486	-0.0171	0.740	0.780
19	064	E	54	2004	-0.1409	0.0738	0.753	0.766
19	065	E	56	2004	1.539	1.707	0.455	0.473
19	066	E	57	2004	2.0579	1.8695	0.360	0.442
19	067	E	59	2004	0.7489	1.1007	0.603	0.590
19	068	E	60	2004	0.7865	0.9461	0.597	0.619
19	069	E	61	2004	1.0616	1.4265	0.545	0.527
19	070	E	62	2004	0.5268	0.924	0.643	0.623
19	071	E	63	2004	0.137	0.1376	0.710	0.757
19	072	E	65	2004	1.6406	1.8152	0.437	0.452
19	073	C	67	2004	0.8095	0.968	0.590	0.615
20	067	F	57	2004	-0.4450	-0.3091	0.797	0.811
20	068	F	60	2004	1.2917	1.6269	0.502	0.483
20	069	F	61	2004	0.4656	0.5105	0.654	0.689
20	070	F	62	2004	0.6128	0.7607	0.627	0.645
20	071	F	63	2004	0.6447	0.7607	0.623	0.645
20	072	F	64	2004	-0.1859	-0.1411	0.761	0.789
20	073	F	65	2004	0.8486	0.7759	0.586	0.642
				Average	0.3491	0.4664	0.6622	0.6876

2005 Grade 8 Mathematics Linking Item Statistics								
Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
17	062	D	63	2004	-2.0223	-1.7271	0.924	0.912
17	063	D	64	2004	1.7467	1.7572	0.352	0.376
17	064	D	65	2004	0.0941	0.1359	0.663	0.680
17	065	D	66	2004	-0.9927	-1.0244	0.827	0.848
17	066	D	67	2004	0.0138	0.2136	0.675	0.666
17	067	D	68	2004	-0.1521	-0.2411	0.705	0.742
17	068	D	70	2004	0.1532	0.3541	0.652	0.641
17	069	D	71	2004	1.7692	1.6958	0.347	0.387
17	070	D	73	2004	2.0890	2.2463	0.293	0.292
17	071	D	75	2004	-0.4067	-0.2756	0.747	0.748
17	072	D	76	2004	0.6799	0.3427	0.553	0.643
18	062	F	63	2004	-1.3009	-1.1727	0.863	0.867
18	063	F	64	2004	0.2904	0.4983	0.626	0.621
18	064	F	66	2004	1.0293	1.2244	0.484	0.482
18	065	F	67	2004	-0.0870	0.1449	0.694	0.684
18	066	F	68	2004	0.4342	0.5028	0.601	0.620
18	067	F	69	2004	1.6792	1.5916	0.365	0.412
18	068	F	70	2004	0.5608	0.5585	0.577	0.610
18	069	F	71	2004	1.5640	1.6159	0.386	0.408
18	070	F	74	2004	0.9416	0.9221	0.503	0.541
18	071	F	75	2004	0.4543	0.6204	0.597	0.598
18	072	F	77	2004	-0.9568	-0.5965	0.824	0.799
19	062	E	63	2004	-0.4715	-0.1742	0.755	0.736
19	063	E	64	2004	0.7564	0.9536	0.538	0.532
19	064	E	65	2004	1.1122	1.0982	0.467	0.504
19	065	E	68	2004	0.3587	0.2169	0.613	0.670
19	066	E	69	2004	0.2244	0.1318	0.638	0.685
19	067	E	71	2004	-0.2609	-0.0716	0.722	0.720
19	068	E	72	2004	-0.2707	-0.2135	0.724	0.742
19	069	E	74	2004	0.1804	0.3779	0.645	0.641
19	070	D	77	2004	-0.9341	-1.0154	0.821	0.850
20	062	C	63	2004	-1.4478	-1.2508	0.878	0.877
20	063	C	64	2004	-0.8297	-0.8555	0.807	0.834
20	064	C	65	2004	1.5309	1.7858	0.388	0.378
20	065	C	66	2004	-0.4386	-0.2657	0.751	0.753
20	066	C	67	2004	0.4201	0.149	0.600	0.686
20	067	C	74	2004	0.0434	0.2654	0.670	0.665
20	068	C	75	2004	0.1098	0.2838	0.657	0.662
20	069	C	76	2004	0.1293	0.247	0.655	0.668
20	070	C	77	2004	-0.2492	-0.1225	0.720	0.731
				Average	0.1886	0.2732	0.6327	0.6479

2005 Grade 11 Mathematics Linking Item Statistics								
Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
17	062	E	67	2004	-1.6094	-1.4425	0.857	0.866
17	063	E	69	2004	0.1734	0.5795	0.574	0.569
17	064	E	70	2004	1.5888	1.1113	0.305	0.473
17	065	E	71	2004	-0.7281	-0.4807	0.738	0.746
17	066	E	73	2004	0.2442	0.6007	0.558	0.565
17	067	E	74	2004	-1.2199	-1.1113	0.810	0.830
17	068	E	76	2004	-1.7177	-1.3441	0.868	0.856
17	069	E	77	2004	2.1754	2.7214	0.220	0.216
17	070	E	78	2004	0.2803	0.4458	0.551	0.593
17	071	E	79	2004	-0.5940	-0.3794	0.714	0.731
17	072	E	80	2004	1.8336	1.7917	0.269	0.354
18	062	D	67	2004	-1.4347	-1.0149	0.836	0.816
18	063	D	69	2004	0.8942	1.3749	0.429	0.413
18	064	D	71	2004	0.5468	0.8879	0.500	0.502
18	065	D	73	2004	-0.5021	-0.1904	0.698	0.695
18	066	D	74	2004	-0.3755	-0.3175	0.677	0.715
18	067	D	75	2004	-0.1228	0.1249	0.629	0.641
18	068	D	76	2004	-1.1682	-0.8517	0.803	0.794
18	069	D	78	2004	0.1534	0.4175	0.577	0.588
18	070	D	79	2004	0.8900	1.302	0.433	0.426
18	071	D	81	2004	-1.4352	-1.1292	0.834	0.830
19	062	C	68	2004	-0.2799	-0.211	0.659	0.702
19	063	C	69	2004	0.2903	0.5928	0.549	0.563
19	064	C	70	2004	-0.4618	-0.3644	0.691	0.727
19	065	C	71	2004	0.0686	0.3731	0.591	0.603
19	066	C	72	2004	0.8083	0.7646	0.448	0.532
19	067	C	73	2004	-0.8681	-0.7704	0.758	0.786
19	068	C	76	2004	0.7152	0.8986	0.464	0.508
19	069	C	78	2004	-0.51	-0.3612	0.700	0.726
19	070	C	80	2004	-0.3653	0.1121	0.673	0.648
19	071	C	81	2004	-0.0099	0.2631	0.608	0.622
20	062	F	68	2004	-0.1155	0.2508	0.626	0.621
20	063	F	70	2004	-0.4997	-0.0911	0.698	0.681
20	064	F	71	2004	0.8513	0.5677	0.440	0.562
20	065	F	72	2004	0.9700	1.3551	0.417	0.415
20	066	F	75	2004	-0.0137	0.4854	0.609	0.577
20	067	F	78	2004	0.3371	0.8895	0.539	0.501
20	068	F	79	2004	1.1440	1.1616	0.383	0.451
20	069	F	80	2004	0.5836	0.8895	0.493	0.501
20	070	F	81	2004	-0.4349	0.0525	0.686	0.656
				Average	0.0021	0.2489	0.5978	0.6150

2005 Grade 5 Reading Linking Item Statistics

Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
	086	W	40	2004	0.8429	0.894	0.604	0.602
	087	W	41	2004	1.4393	1.3245	0.489	0.518
	088	W	42	2004	0.1513	0.3322	0.723	0.704
	089	W	43	2004	0.3806	0.1537	0.686	0.733
	090	W	45	2004	0.3923	0.4942	0.684	0.676
	091	W	46	2004	0.8614	1.215	0.600	0.540
	092	W	47	2004	1.0209	0.7102	0.570	0.637
	093	W	48	2004	0.9404	1.082	0.585	0.566
	086	W	26	2004	-1.1140	-1.0952	0.880	0.888
	087	W	28	2004	2.2003	2.0726	0.346	0.381
	088	W	29	2004	-0.3267	-0.1291	0.793	0.780
	089	W	30	2004	0.4519	0.4471	0.674	0.691
	090	W	32	2004	-1.3674	-0.749	0.902	0.855
	091	W	33	2004	-1.2455	-0.8374	0.892	0.864
	092	W	34	2004	-0.7668	-0.4203	0.846	0.818
	093	W	35	2004	-0.1209	0.0959	0.764	0.747
	086	W	149	2004	0.3477	0.3767	0.692	0.701
	087	W	150	2004	-1.1380	-0.9028	0.882	0.871
	088	W	151	2004	-0.3407	-0.1445	0.795	0.782
	089	W	152	2004	0.3126	0.5324	0.697	0.674
	090	W	154	2004	0.0090	0.2439	0.745	0.723
	091	W	155	2004	-0.9764	-0.9551	0.867	0.876
	092	W	156	2004	-0.7276	-0.6954	0.842	0.850
	093	W	157	2004	0.4975	1.1385	0.666	0.559
	086	W	136	2004	-1.0093	-0.8413	0.870	0.860
	087	W	137	2004	-2.2416	-2.1062	0.952	0.948
	088	W	138	2004	-0.7059	-0.5596	0.839	0.830
	089	W	139	2004	-0.2971	-0.0495	0.789	0.765
	090	W	140	2004	-1.1666	-1.1289	0.885	0.886
	091	W	141	2004	-1.0065	-0.5797	0.870	0.833
	092	W	143	2004	-0.0022	0.0476	0.747	0.751
	093	W	144	2004	0.7446	1.3109	0.622	0.530
				Average	-0.1238	0.0399	0.7437	0.7326

2005 Grade 8 Reading Linking Item Statistics

Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
	085	W	174	2004	-1.0621	-0.4007	0.858	0.848
	086	W	175	2004	-0.5700	-0.0138	0.799	0.802
	087	W	176	2004	0.8970	1.6787	0.542	0.511
	088	W	177	2004	-1.2136	-0.6035	0.873	0.868
	089	W	178	2004	0.4787	0.9989	0.625	0.642
	090	W	180	2004	-0.1620	0.2986	0.738	0.759
	091	W	183	2004	0.4097	1.4182	0.638	0.563
	092	W	185	2004	-0.9247	-0.4045	0.843	0.848
	085	W	45	2004	-0.1598	0.5667	0.738	0.726
	086	W	46	2004	1.2871	1.8472	0.462	0.488
	087	W	47	2004	-1.3826	-0.3389	0.889	0.847
	088	W	48	2004	0.0156	0.8228	0.710	0.684
	089	W	50	2004	1.3138	1.8431	0.456	0.489
	090	W	51	2004	-1.1546	-0.0203	0.868	0.810
	091	W	52	2004	-1.9558	-0.8605	0.930	0.896
	092	W	53	2004	-0.5207	0.0697	0.792	0.798
	085	W	157	2004	1.2334	1.9784	0.473	0.468
	086	W	158	2004	0.3056	1.0085	0.658	0.658
	087	W	159	2004	-0.2339	0.5461	0.751	0.736
	088	W	160	2004	-0.5854	0.0491	0.801	0.807
	089	W	163	2004	-1.0635	-0.6204	0.858	0.880
	090	W	164	2004	-0.1474	0.5224	0.736	0.740
	091	W	165	2004	-1.5173	-0.8627	0.900	0.900
	092	W	166	2004	-0.4344	0.5514	0.780	0.735
	085	W	27	2004	-1.7586	-0.5943	0.917	0.878
	086	W	28	2004	-0.9136	0.094	0.842	0.801
	087	W	29	2004	0.4511	1.2668	0.631	0.608
	088	W	30	2004	0.4119	1.0434	0.638	0.650
	089	W	31	2004	1.3521	2.0417	0.448	0.454
	090	W	33	2004	-0.9251	-0.2649	0.843	0.845
	091	W	34	2004	-1.1648	-0.0559	0.869	0.821
	092	W	36	2004	0.1945	1.092	0.678	0.641
				Average	-0.2969	0.4593	0.7370	0.7252

2005 Grade 11 Reading Linking Item Statistics

Form	Item Sequence	Prev Form Name	Prev Sequence	Prev Form Year	2004 Rasch Logit	2005 Rasch Logit	2004 P-Value	2005 P-Value
	085	W	27	2004	0.3580	1.1597	0.613	0.625
	086	W	28	2004	-0.8823	0.6064	0.815	0.721
	087	W	29	2004	0.2543	1.2999	0.633	0.599
	088	W	30	2004	-0.9217	0.1696	0.818	0.786
	089	W	31	2004	-0.5795	0.3807	0.773	0.756
	090	W	32	2004	-1.4309	-0.0237	0.870	0.811
	091	W	33	2004	-1.0774	0.0028	0.838	0.808
	092	W	34	2004	0.9193	1.6282	0.503	0.536
	085	W	47	2004	-0.7313	-0.2159	0.794	0.833
	086	W	48	2004	-0.5558	0.3396	0.768	0.762
	087	W	49	2004	-0.1767	0.6049	0.707	0.722
	088	W	51	2004	-0.3845	0.4157	0.743	0.750
	089	W	52	2004	0.2159	1.03	0.640	0.650
	090	W	54	2004	-0.4752	0.3463	0.757	0.761
	091	W	55	2004	-0.8936	-0.38	0.815	0.850
	092	W	58	2004	1.2818	2.1247	0.430	0.442
	085	W	166	2004	-2.0729	-1.5502	0.925	0.942
	086	W	167	2004	-0.8944	-0.0123	0.814	0.815
	087	W	169	2004	0.2936	1.0777	0.625	0.649
	088	W	170	2004	-0.1412	0.7936	0.703	0.698
	089	W	171	2004	-0.0451	0.7587	0.687	0.704
	090	W	173	2004	-1.0578	-0.1764	0.834	0.834
	091	W	177	2004	-1.4664	-0.7166	0.877	0.887
	092	W	181	2004	0.5688	1.231	0.573	0.621
	085	W	186	2004	-0.9656	-0.3343	0.823	0.841
	086	W	187	2004	-1.6519	-1.0968	0.893	0.909
	087	W	188	2004	-0.873	-0.3033	0.812	0.837
	088	W	189	2004	-0.3104	0.6087	0.729	0.714
	089	W	192	2004	-1.1026	-0.2599	0.839	0.832
	090	W	193	2004	-1.5553	-0.849	0.884	0.890
	091	W	194	2004	-1.7527	-1.2107	0.901	0.916
	092	W	197	2004	-1.7034	-1.2405	0.896	0.918
				Average	-0.6191	0.1940	0.7603	0.7631

Appendix II:
2005 Raw to Scaled Score Tables

2005 Raw to Scaled Score Tables

2005 Grade 5 Reading Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-5.5682	700	1.8363	365	1287	0.9	1287	0.9	1	0.0%
1	-4.3372	700	1.0191	203	9	0	1296	0.9	1	1.9%
2	-3.6055	700	0.7338	146	12	0	1308	1	1	3.8%
3	-3.1616	700	0.6098	121	17	0	1325	1	1	5.8%
4	-2.8354	700	0.5371	107	37	0	1362	1	1	7.7%
5	-2.5737	700	0.4885	97	74	0.1	1436	1	1	9.6%
6	-2.3527	700	0.4533	90	98	0.1	1534	1.1	1	11.5%
7	-2.1596	700	0.4265	85	195	0.1	1729	1.3	1	13.5%
8	-1.9869	700	0.4054	81	260	0.2	1989	1.4	1	15.4%
9	-1.8297	731	0.3884	77	431	0.3	2420	1.8	2	17.3%
10	-1.6844	760	0.3744	74	589	0.4	3009	2.2	2	19.2%
11	-1.5487	787	0.3627	72	706	0.5	3715	2.7	2	21.2%
12	-1.4207	812	0.3529	70	813	0.6	4528	3.3	3	23.1%
13	-1.2992	836	0.3446	69	937	0.7	5465	4	4	25.0%
14	-1.1829	859	0.3376	67	1013	0.7	6478	4.7	4	26.9%
15	-1.071	882	0.3316	66	1121	0.8	7599	5.5	5	28.8%
16	-0.9626	903	0.3266	65	1162	0.8	8761	6.4	6	30.8%
17	-0.8575	924	0.3223	64	1307	1	10068	7.3	7	32.7%
18	-0.7547	945	0.3187	63	1278	0.9	11346	8.3	8	34.6%
19	-0.6541	965	0.3158	63	1422	1	12768	9.3	9	36.5%
20	-0.5552	984	0.3134	62	1406	1	14174	10.3	10	38.5%
21	-0.4576	1004	0.3115	62	1533	1.1	15707	11.4	11	40.4%
22	-0.361	1023	0.3102	62	1635	1.2	17342	12.6	12	42.3%
23	-0.2651	1042	0.3093	61	1768	1.3	19110	13.9	13	44.2%
24	-0.1696	1061	0.3088	61	1924	1.4	21034	15.3	15	46.2%
25	-0.0743	1080	0.3087	61	2021	1.5	23055	16.8	16	48.1%
26	0.0211	1099	0.3091	61	2196	1.6	25251	18.4	18	50.0%
27	0.1169	1118	0.3099	62	2385	1.7	27636	20.1	19	51.9%
28	0.2133	1137	0.3111	62	2448	1.8	30084	21.9	21	53.8%
29	0.3106	1156	0.3128	62	2681	2	32765	23.8	23	55.8%
30	0.4091	1176	0.3149	63	2946	2.1	35711	26	25	57.7%
31	0.509	1196	0.3175	63	3269	2.4	38980	28.4	27	59.6%
32	0.6108	1216	0.3206	64	3462	2.5	42442	30.9	30	61.5%
33	0.7147	1237	0.3242	64	3859	2.8	46301	33.7	32	63.5%
34	0.8212	1258	0.3285	65	4131	3	50432	36.7	35	65.4%
35	0.9307	1280	0.3334	66	4588	3.3	55020	40	38	67.3%
36	1.0437	1302	0.3391	67	5095	3.7	60115	43.7	42	69.2%
37	1.1609	1325	0.3456	69	5345	3.9	65460	47.6	46	71.2%
38	1.2829	1350	0.3531	70	5836	4.2	71296	51.9	50	73.1%
39	1.4105	1375	0.3617	72	6230	4.5	77526	56.4	54	75.0%
40	1.5449	1402	0.3716	74	6861	5	84387	61.4	59	76.9%
41	1.6872	1430	0.3831	76	7146	5.2	91533	66.6	64	78.8%
42	1.839	1460	0.3966	79	7548	5.5	99081	72.1	69	80.8%
43	2.0025	1493	0.4125	82	7389	5.4	106470	77.5	75	82.7%
44	2.1803	1528	0.4314	86	7297	5.3	113767	82.8	80	84.6%
45	2.3762	1567	0.4544	90	6667	4.9	120434	87.6	85	86.5%
46	2.5955	1611	0.4832	96	5781	4.2	126215	91.9	90	88.5%
47	2.8465	1660	0.5203	103	4493	3.3	130708	95.1	93	90.4%
48	3.1426	1719	0.5705	113	3315	2.4	134023	97.5	96	92.3%
49	3.5088	1792	0.6442	128	1949	1.4	135972	99	98	94.2%
50	3.9997	1890	0.7678	153	1014	0.7	136986	99.7	99	96.2%
51	4.7873	2046	1.0487	208	360	0.3	137346	100	99	98.1%
52	6.064	2300	1.8551	369	63	0	137409	100	99	100.0%

2005 Grade 8 Reading Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-6.1198	700	1.8401	432	1969	1.3	1969	1.3	1	0.0%
1	-4.8794	700	1.0254	241	15	0	1984	1.3	1	1.9%
2	-4.1357	700	0.7415	174	28	0	2012	1.3	1	3.8%
3	-3.681	700	0.618	145	36	0	2048	1.4	1	5.8%
4	-3.3453	700	0.5454	128	47	0	2095	1.4	1	7.7%
5	-3.0751	700	0.4966	117	81	0.1	2176	1.4	1	9.6%
6	-2.8465	700	0.4611	108	112	0.1	2288	1.5	1	11.5%
7	-2.6466	700	0.4339	102	162	0.1	2450	1.6	2	13.5%
8	-2.468	700	0.4123	97	209	0.1	2659	1.8	2	15.4%
9	-2.3054	700	0.3946	93	325	0.2	2984	2	2	17.3%
10	-2.1556	700	0.3799	89	383	0.3	3367	2.2	2	19.2%
11	-2.016	700	0.3675	86	474	0.3	3841	2.6	2	21.2%
12	-1.8849	700	0.3568	84	512	0.3	4353	2.9	3	23.1%
13	-1.761	700	0.3476	82	601	0.4	4954	3.3	3	25.0%
14	-1.643	728	0.3396	80	730	0.5	5684	3.8	4	26.9%
15	-1.5301	754	0.3325	78	803	0.5	6487	4.3	4	28.8%
16	-1.4216	780	0.3263	77	786	0.5	7273	4.8	5	30.8%
17	-1.317	804	0.3208	75	888	0.6	8161	5.4	5	32.7%
18	-1.2156	828	0.316	74	986	0.7	9147	6.1	6	34.6%
19	-1.1172	851	0.3117	73	985	0.7	10132	6.7	6	36.5%
20	-1.0212	874	0.308	72	1028	0.7	11160	7.4	7	38.5%
21	-0.9273	896	0.3048	72	1062	0.7	12222	8.1	8	40.4%
22	-0.8352	918	0.3021	71	1284	0.9	13506	9	9	42.3%
23	-0.7446	939	0.2999	70	1262	0.8	14768	9.8	9	44.2%
24	-0.6552	960	0.2981	70	1361	0.9	16129	10.7	10	46.2%
25	-0.5667	981	0.2968	70	1474	1	17603	11.7	11	48.1%
26	-0.4789	1001	0.296	70	1583	1.1	19186	12.8	12	50.0%
27	-0.3914	1022	0.2957	69	1675	1.1	20861	13.9	13	51.9%
28	-0.304	1042	0.2959	69	1830	1.2	22691	15.1	15	53.8%
29	-0.2162	1063	0.2967	70	2006	1.3	24697	16.5	16	55.8%
30	-0.1278	1084	0.298	70	2250	1.5	26947	18	17	57.7%
31	-0.0385	1105	0.2999	70	2407	1.6	29354	19.6	19	59.6%
32	0.0522	1126	0.3025	71	2663	1.8	32017	21.3	20	61.5%
33	0.1446	1148	0.3057	72	3062	2	35079	23.4	22	63.5%
34	0.2392	1170	0.3097	73	3208	2.1	38287	25.5	24	65.4%
35	0.3366	1193	0.3144	74	3708	2.5	41995	28	27	67.3%
36	0.4372	1216	0.3201	75	4222	2.8	46217	30.8	29	69.2%
37	0.5418	1241	0.3267	77	4733	3.2	50950	33.9	32	71.2%
38	0.6509	1267	0.3344	79	5089	3.4	56039	37.3	36	73.1%
39	0.7657	1294	0.3433	81	5792	3.9	61831	41.2	39	75.0%
40	0.887	1322	0.3536	83	6341	4.2	68172	45.4	43	76.9%
41	1.0163	1352	0.3657	86	7061	4.7	75233	50.1	48	78.8%
42	1.1551	1385	0.3798	89	7737	5.2	82970	55.3	53	80.8%
43	1.3055	1420	0.3964	93	8619	5.7	91589	61	58	82.7%
44	1.4704	1459	0.4162	98	9416	6.3	101005	67.3	64	84.6%
45	1.6535	1502	0.4404	103	9740	6.5	110745	73.8	71	86.5%
46	1.8604	1551	0.4704	110	9695	6.5	120440	80.2	77	88.5%
47	2.0994	1607	0.5089	119	9427	6.3	129867	86.5	83	90.4%
48	2.3841	1674	0.5607	132	8130	5.4	137997	91.9	89	92.3%
49	2.7393	1757	0.6358	149	6162	4.1	144159	96	94	94.2%
50	3.2194	1870	0.7606	179	3890	2.6	148049	98.6	97	96.2%
51	3.9951	2052	1.0425	245	1642	1.1	149691	99.7	99	98.1%
52	5.262	2349	1.8509	435	416	0.3	150107	100	99	100.0%

2005 Grade 11 Reading Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-6.1843	700	1.8381	451	3008	2.2	3008	2.2	1	0.0%
1	-4.9488	700	1.0222	251	29	0	3037	2.2	2	1.9%
2	-4.2108	700	0.7381	181	32	0	3069	2.3	2	3.8%
3	-3.7607	700	0.6147	151	53	0	3122	2.3	2	5.8%
4	-3.4286	700	0.5426	133	78	0.1	3200	2.4	2	7.7%
5	-3.1611	700	0.4942	121	117	0.1	3317	2.5	2	9.6%
6	-2.9347	700	0.459	113	148	0.1	3465	2.6	3	11.5%
7	-2.7366	700	0.4321	106	221	0.2	3686	2.7	3	13.5%
8	-2.5593	700	0.4107	101	247	0.2	3933	2.9	3	15.4%
9	-2.3979	700	0.3933	97	333	0.2	4266	3.2	3	17.3%
10	-2.249	700	0.3788	93	442	0.3	4708	3.5	3	19.2%
11	-2.1103	700	0.3665	90	533	0.4	5241	3.9	4	21.2%
12	-1.98	700	0.3559	87	621	0.5	5862	4.3	4	23.1%
13	-1.8566	700	0.3468	85	667	0.5	6529	4.8	5	25.0%
14	-1.7391	700	0.3389	83	668	0.5	7197	5.3	5	26.9%
15	-1.6267	716	0.3319	81	779	0.6	7976	5.9	6	28.8%
16	-1.5185	742	0.3259	80	823	0.6	8799	6.5	6	30.8%
17	-1.4141	768	0.3206	79	865	0.6	9664	7.1	7	32.7%
18	-1.3128	793	0.3159	78	903	0.7	10567	7.8	7	34.6%
19	-1.2143	817	0.312	77	975	0.7	11542	8.5	8	36.5%
20	-1.1181	841	0.3086	76	1029	0.8	12571	9.3	9	38.5%
21	-1.0237	864	0.3057	75	1037	0.8	13608	10.1	10	40.4%
22	-0.931	887	0.3034	74	1229	0.9	14837	11	11	42.3%
23	-0.8395	909	0.3016	74	1277	0.9	16114	11.9	11	44.2%
24	-0.749	931	0.3003	74	1416	1	17530	13	12	46.2%
25	-0.6591	953	0.2994	73	1532	1.1	19062	14.1	14	48.1%
26	-0.5696	975	0.2991	73	1603	1.2	20665	15.3	15	50.0%
27	-0.4802	997	0.2992	73	1683	1.2	22348	16.5	16	51.9%
28	-0.3905	1019	0.2998	74	1872	1.4	24220	17.9	17	53.8%
29	-0.3002	1042	0.301	74	2004	1.5	26224	19.4	19	55.8%
30	-0.2091	1064	0.3027	74	2195	1.6	28419	21	20	57.7%
31	-0.1169	1087	0.305	75	2449	1.8	30868	22.8	22	59.6%
32	-0.023	1110	0.3078	76	2455	1.8	33323	24.6	24	61.5%
33	0.0728	1133	0.3114	76	2821	2.1	36144	26.7	26	63.5%
34	0.171	1157	0.3156	77	3059	2.3	39203	29	28	65.4%
35	0.2722	1182	0.3207	79	3402	2.5	42605	31.5	30	67.3%
36	0.3769	1208	0.3266	80	3655	2.7	46260	34.2	33	69.2%
37	0.4857	1234	0.3334	82	3997	3	50257	37.2	36	71.2%
38	0.5995	1262	0.3414	84	4397	3.3	54654	40.4	39	73.1%
39	0.7192	1292	0.3507	86	4727	3.5	59381	43.9	42	75.0%
40	0.846	1323	0.3615	89	5418	4	64799	47.9	46	76.9%
41	0.9811	1356	0.374	92	5801	4.3	70600	52.2	50	78.8%
42	1.1264	1392	0.3887	95	6341	4.7	76941	56.9	55	80.8%
43	1.2842	1430	0.4061	100	6920	5.1	83861	62	59	82.7%
44	1.4573	1473	0.4268	105	7504	5.6	91365	67.6	65	84.6%
45	1.65	1520	0.4519	111	7756	5.7	99121	73.3	70	86.5%
46	1.868	1574	0.4831	119	8015	5.9	107136	79.2	76	88.5%
47	2.1204	1636	0.5231	128	7804	5.8	114940	85	82	90.4%
48	2.4215	1710	0.5767	142	7312	5.4	122252	90.4	88	92.3%
49	2.7975	1802	0.6542	161	5920	4.4	128172	94.8	93	94.2%
50	3.3054	1927	0.7816	192	4298	3.2	132470	98	96	96.2%
51	4.1197	2126	1.0641	261	2133	1.6	134603	99.6	99	98.1%
52	5.4222	2446	1.8661	458	597	0.4	135200	100	99	100.0%

2005 Grade 5 Mathematics Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-5.6747	700	1.8367	349	1138	0.8	1138	0.8	1	0.0%
1	-4.4427	700	1.0196	194	4	0	1142	0.8	1	1.5%
2	-3.7103	700	0.7341	139	4	0	1146	0.8	1	3.0%
3	-3.2663	700	0.6096	116	7	0	1153	0.8	1	4.5%
4	-2.9406	700	0.5364	102	9	0	1162	0.8	1	6.1%
5	-2.68	700	0.4871	92	10	0	1172	0.9	1	7.6%
6	-2.4605	700	0.4512	86	18	0	1190	0.9	1	9.1%
7	-2.2696	703	0.4237	80	25	0	1215	0.9	1	10.6%
8	-2.0994	736	0.4019	76	45	0	1260	0.9	1	12.1%
9	-1.9452	765	0.3841	73	69	0.1	1329	1	1	13.6%
10	-1.8035	792	0.3692	70	83	0.1	1412	1	1	15.2%
11	-1.6719	817	0.3567	68	150	0.1	1562	1.1	1	16.7%
12	-1.5485	840	0.3459	66	231	0.2	1793	1.3	1	18.2%
13	-1.4321	862	0.3367	64	271	0.2	2064	1.5	1	19.7%
14	-1.3215	883	0.3286	62	399	0.3	2463	1.8	2	21.2%
15	-1.2159	903	0.3215	61	459	0.3	2922	2.1	2	22.7%
16	-1.1146	923	0.3152	60	518	0.4	3440	2.5	2	24.2%
17	-1.0169	941	0.3097	59	580	0.4	4020	2.9	3	25.8%
18	-0.9226	959	0.3048	58	684	0.5	4704	3.4	3	27.3%
19	-0.831	976	0.3004	57	735	0.5	5439	4	4	28.8%
20	-0.742	993	0.2964	56	821	0.6	6260	4.6	4	30.3%
21	-0.6552	1010	0.2929	56	873	0.6	7133	5.2	5	31.8%
22	-0.5703	1026	0.2897	55	928	0.7	8061	5.9	6	33.3%
23	-0.4872	1042	0.2869	54	985	0.7	9046	6.6	6	34.8%
24	-0.4057	1057	0.2843	54	999	0.7	10045	7.3	7	36.4%
25	-0.3255	1072	0.282	54	1162	0.8	11207	8.2	8	37.9%
26	-0.2466	1087	0.2799	53	1249	0.9	12456	9.1	9	39.4%
27	-0.1688	1102	0.2779	53	1200	0.9	13656	9.9	10	40.9%
28	-0.0921	1117	0.2762	52	1305	0.9	14961	10.9	10	42.4%
29	-0.0162	1131	0.2746	52	1407	1	16368	11.9	11	43.9%
30	0.0588	1145	0.2731	52	1501	1.1	17869	13	12	45.5%
31	0.133	1159	0.2718	52	1589	1.2	19458	14.2	14	47.0%
32	0.2066	1173	0.2706	51	1692	1.2	21150	15.4	15	48.5%
33	0.2795	1187	0.2696	51	1759	1.3	22909	16.7	16	50.0%
34	0.3519	1201	0.2686	51	1869	1.4	24778	18	17	51.5%
35	0.4238	1215	0.2678	51	2014	1.5	26792	19.5	19	53.0%
36	0.4954	1228	0.2672	51	2109	1.5	28901	21	20	54.5%
37	0.5666	1242	0.2667	51	2171	1.6	31072	22.6	22	56.1%
38	0.6377	1255	0.2665	51	2311	1.7	33383	24.3	23	57.6%
39	0.7087	1269	0.2664	51	2470	1.8	35853	26.1	25	59.1%
40	0.7797	1282	0.2666	51	2642	1.9	38495	28	27	60.6%
41	0.8509	1296	0.2671	51	2704	2	41199	30	29	62.1%
42	0.9224	1309	0.2679	51	2901	2.1	44100	32.1	31	63.6%
43	0.9945	1323	0.269	51	3081	2.2	47181	34.3	33	65.2%
44	1.0672	1337	0.2705	51	3184	2.3	50365	36.7	35	66.7%
45	1.1409	1351	0.2724	52	3285	2.4	53650	39	38	68.2%
46	1.2157	1365	0.2748	52	3640	2.6	57290	41.7	40	69.7%
47	1.292	1379	0.2777	53	3677	2.7	60967	44.4	43	71.2%
48	1.3701	1394	0.2812	53	3704	2.7	64671	47.1	46	72.7%
49	1.4503	1409	0.2855	54	3938	2.9	68609	49.9	48	74.2%
50	1.5332	1425	0.2905	55	4126	3	72735	52.9	51	75.8%
51	1.6193	1441	0.2964	56	4315	3.1	77050	56.1	55	77.3%
52	1.7092	1459	0.3035	58	4512	3.3	81562	59.4	58	78.8%
53	1.8038	1476	0.3117	59	4723	3.4	86285	62.8	61	80.3%
54	1.904	1495	0.3215	61	4743	3.5	91028	66.2	65	81.8%
55	2.011	1516	0.3331	63	4932	3.6	95960	69.8	68	83.3%
56	2.1264	1538	0.3469	66	5095	3.7	101055	73.5	72	84.8%
57	2.2524	1562	0.3634	69	5114	3.7	106169	77.3	75	86.4%

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
58	2.3917	1588	0.3835	73	5237	3.8	111406	81.1	79	87.9%
59	2.5481	1618	0.4083	77	5130	3.7	116536	84.8	83	89.4%
60	2.7273	1652	0.4395	83	5082	3.7	121618	88.5	87	90.9%
61	2.9379	1692	0.48	91	4721	3.4	126339	91.9	90	92.4%
62	3.1941	1740	0.5348	102	4036	2.9	130375	94.9	93	93.9%
63	3.5217	1803	0.6145	117	3219	2.3	133594	97.2	96	95.5%
64	3.9771	1889	0.7458	142	2286	1.7	135880	98.9	98	97.0%
65	4.7345	2033	1.0359	197	1205	0.9	137085	99.8	99	98.5%
66	5.9949	2272	1.8498	351	324	0.2	137409	100	99	100.0%

2005 Grade 8 Mathematics Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-5.5272	700	1.8326	325	1711	1.1	1711	1.1	1	0.0%
1	-4.3056	700	1.0125	180	18	0	1729	1.2	1	1.5%
2	-3.5871	700	0.7248	129	7	0	1736	1.2	1	3.0%
3	-3.1562	700	0.5991	106	21	0	1757	1.2	1	4.5%
4	-2.8428	700	0.5251	93	36	0	1793	1.2	1	6.1%
5	-2.5939	722	0.4753	84	37	0	1830	1.2	1	7.6%
6	-2.3856	759	0.439	78	58	0	1888	1.3	1	9.1%
7	-2.2052	791	0.4112	73	100	0.1	1988	1.3	1	10.6%
8	-2.0454	819	0.3892	69	128	0.1	2116	1.4	1	12.1%
9	-1.9011	845	0.3711	66	174	0.1	2290	1.5	1	13.6%
10	-1.769	868	0.3561	63	264	0.2	2554	1.7	2	15.2%
11	-1.6468	890	0.3433	61	397	0.3	2951	2	2	16.7%
12	-1.5327	910	0.3324	59	555	0.4	3506	2.3	2	18.2%
13	-1.4255	929	0.3228	57	682	0.5	4188	2.8	3	19.7%
14	-1.324	947	0.3145	56	877	0.6	5065	3.4	3	21.2%
15	-1.2275	964	0.3071	55	966	0.6	6031	4	4	22.7%
16	-1.1352	981	0.3005	53	1139	0.8	7170	4.8	4	24.2%
17	-1.0466	996	0.2947	52	1293	0.9	8463	5.6	5	25.8%
18	-0.9614	1012	0.2894	51	1392	0.9	9855	6.6	6	27.3%
19	-0.879	1026	0.2847	51	1416	0.9	11271	7.5	7	28.8%
20	-0.7992	1040	0.2804	50	1504	1	12775	8.5	8	30.3%
21	-0.7217	1054	0.2765	49	1528	1	14303	9.5	9	31.8%
22	-0.6461	1068	0.273	48	1577	1.1	15880	10.6	10	33.3%
23	-0.5725	1081	0.2699	48	1652	1.1	17532	11.7	11	34.8%
24	-0.5004	1093	0.2671	47	1695	1.1	19227	12.8	12	36.4%
25	-0.4298	1106	0.2645	47	1859	1.2	21086	14	13	37.9%
26	-0.3604	1118	0.2623	47	1851	1.2	22937	15.3	15	39.4%
27	-0.2921	1130	0.2603	46	1893	1.3	24830	16.5	16	40.9%
28	-0.2248	1142	0.2586	46	2062	1.4	26892	17.9	17	42.4%
29	-0.1584	1154	0.2571	46	2068	1.4	28960	19.3	19	43.9%
30	-0.0926	1166	0.2559	45	2149	1.4	31109	20.7	20	45.5%
31	-0.0274	1177	0.2549	45	2277	1.5	33386	22.2	21	47.0%
32	0.0374	1189	0.2542	45	2325	1.5	35711	23.8	23	48.5%
33	0.1019	1200	0.2538	45	2456	1.6	38167	25.4	25	50.0%
34	0.1663	1212	0.2535	45	2523	1.7	40690	27.1	26	51.5%
35	0.2306	1223	0.2536	45	2585	1.7	43275	28.8	28	53.0%
36	0.2949	1235	0.2539	45	2717	1.8	45992	30.6	30	54.5%
37	0.3595	1246	0.2544	45	2730	1.8	48722	32.5	32	56.1%
38	0.4244	1258	0.2553	45	2961	2	51683	34.4	33	57.6%
39	0.4898	1269	0.2564	46	2892	1.9	54575	36.4	35	59.1%
40	0.556	1281	0.2579	46	2891	1.9	57466	38.3	37	60.6%
41	0.623	1293	0.2597	46	3067	2	60533	40.3	39	62.1%
42	0.691	1305	0.2619	46	3109	2.1	63642	42.4	41	63.6%
43	0.7602	1317	0.2645	47	3253	2.2	66895	44.6	43	65.2%
44	0.8309	1330	0.2675	47	3386	2.3	70281	46.8	46	66.7%
45	0.9034	1343	0.271	48	3353	2.2	73634	49.1	48	68.2%
46	0.9779	1356	0.275	49	3620	2.4	77254	51.5	50	69.7%
47	1.0549	1370	0.2796	50	3684	2.5	80938	53.9	53	71.2%
48	1.1345	1384	0.2849	51	3776	2.5	84714	56.4	55	72.7%
49	1.2173	1398	0.2909	52	3861	2.6	88575	59	58	74.2%
50	1.3039	1414	0.2976	53	3880	2.6	92455	61.6	60	75.8%
51	1.3947	1430	0.3053	54	4082	2.7	96537	64.3	63	77.3%
52	1.4906	1447	0.3141	56	4228	2.8	100765	67.1	66	78.8%
53	1.5923	1465	0.324	58	4209	2.8	104974	69.9	69	80.3%
54	1.7009	1484	0.3353	60	4377	2.9	109351	72.8	71	81.8%
55	1.8176	1505	0.3483	62	4426	2.9	113777	75.8	74	83.3%
56	1.9442	1527	0.3634	65	4500	3	118277	78.8	77	84.8%
57	2.0826	1552	0.381	68	4529	3	122806	81.8	80	86.4%

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
58	2.2356	1579	0.4019	71	4595	3.1	127401	84.9	83	87.9%
59	2.4072	1610	0.4272	76	4369	2.9	131770	87.8	86	89.4%
60	2.6027	1644	0.4584	81	4291	2.9	136061	90.6	89	90.9%
61	2.8308	1685	0.4983	88	3994	2.7	140055	93.3	92	92.4%
62	3.1052	1734	0.5517	98	3662	2.4	143717	95.7	95	93.9%
63	3.451	1795	0.6289	112	2894	1.9	146611	97.7	97	95.5%
64	3.9233	1879	0.7562	134	2087	1.4	148698	99.1	98	97.0%
65	4.694	2016	1.0409	185	1083	0.7	149781	99.8	99	98.5%
66	5.9596	2240	1.8509	329	326	0.2	150107	100	99	100.0%

2005 Grade 11 Mathematics Raw to Scaled Score Table

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
0	-5.7475	700	1.8335	378	2670	2	2670	2	1	0.0%
1	-4.5236	700	1.0142	209	32	0	2702	2	2	1.5%
2	-3.8017	700	0.7272	150	33	0	2735	2	2	3.0%
3	-3.3674	700	0.6019	124	48	0	2783	2.1	2	4.5%
4	-3.0506	700	0.5284	109	76	0.1	2859	2.1	2	6.1%
5	-2.7982	700	0.4789	99	100	0.1	2959	2.2	2	7.6%
6	-2.5864	700	0.443	91	125	0.1	3084	2.3	2	9.1%
7	-2.4025	707	0.4156	86	181	0.1	3265	2.4	2	10.6%
8	-2.2391	741	0.3938	81	297	0.2	3562	2.6	3	12.1%
9	-2.0911	771	0.3761	78	456	0.3	4018	3	3	13.6%
10	-1.9552	800	0.3614	75	648	0.5	4666	3.5	3	15.2%
11	-1.8292	826	0.3489	72	863	0.6	5529	4.1	4	16.7%
12	-1.7112	850	0.3383	70	1145	0.8	6674	4.9	5	18.2%
13	-1.5999	873	0.3291	68	1353	1	8027	5.9	5	19.7%
14	-1.4943	895	0.3211	66	1752	1.3	9779	7.2	7	21.2%
15	-1.3935	915	0.314	65	1763	1.3	11542	8.5	8	22.7%
16	-1.2969	935	0.3077	64	1949	1.4	13491	10	9	24.2%
17	-1.204	955	0.3021	62	2071	1.5	15562	11.5	11	25.8%
18	-1.1143	973	0.2971	61	2159	1.6	17721	13.1	12	27.3%
19	-1.0274	991	0.2925	60	2093	1.5	19814	14.7	14	28.8%
20	-0.943	1008	0.2884	60	2243	1.7	22057	16.3	15	30.3%
21	-0.8609	1025	0.2846	59	2154	1.6	24211	17.9	17	31.8%
22	-0.7809	1042	0.2812	58	2201	1.6	26412	19.5	19	33.3%
23	-0.7027	1058	0.278	57	2116	1.6	28528	21.1	20	34.8%
24	-0.6263	1074	0.275	57	2243	1.7	30771	22.8	22	36.4%
25	-0.5514	1089	0.2723	56	2146	1.6	32917	24.3	24	37.9%
26	-0.4779	1104	0.2698	56	2254	1.7	35171	26	25	39.4%
27	-0.4057	1119	0.2675	55	2264	1.7	37435	27.7	27	40.9%
28	-0.3347	1134	0.2655	55	2214	1.6	39649	29.3	29	42.4%
29	-0.2647	1148	0.2636	54	2243	1.7	41892	31	30	43.9%
30	-0.1957	1163	0.2619	54	2194	1.6	44086	32.6	32	45.5%
31	-0.1275	1177	0.2605	54	2230	1.6	46316	34.3	33	47.0%
32	-0.0599	1191	0.2594	54	2367	1.8	48683	36	35	48.5%
33	0.0071	1205	0.2585	53	2364	1.7	51047	37.8	37	50.0%
34	0.0737	1218	0.2579	53	2436	1.8	53483	39.6	39	51.5%
35	0.1402	1232	0.2576	53	2439	1.8	55922	41.4	40	53.0%
36	0.2066	1246	0.2577	53	2480	1.8	58402	43.2	42	54.5%
37	0.2731	1259	0.2581	53	2474	1.8	60876	45	44	56.1%
38	0.3399	1273	0.2589	53	2472	1.8	63348	46.9	46	57.6%
39	0.4072	1287	0.26	54	2633	1.9	65981	48.8	48	59.1%
40	0.4752	1301	0.2616	54	2638	2	68619	50.8	50	60.6%
41	0.5441	1315	0.2635	54	2452	1.8	71071	52.6	52	62.1%
42	0.6142	1330	0.2659	55	2573	1.9	73644	54.5	54	63.6%
43	0.6856	1345	0.2688	55	2641	2	76285	56.4	55	65.2%
44	0.7587	1360	0.2721	56	2648	2	78933	58.4	57	66.7%
45	0.8337	1375	0.2758	57	2617	1.9	81550	60.3	59	68.2%
46	0.911	1391	0.2802	58	2686	2	84236	62.3	61	69.7%
47	0.9909	1408	0.2851	59	2728	2	86964	64.3	63	71.2%
48	1.0737	1425	0.2906	60	2702	2	89666	66.3	65	72.7%
49	1.1599	1443	0.2968	61	2728	2	92394	68.3	67	74.2%
50	1.25	1461	0.3038	63	2717	2	95111	70.3	69	75.8%
51	1.3447	1481	0.3118	64	2804	2.1	97915	72.4	71	77.3%
52	1.4447	1501	0.3207	66	2909	2.2	100824	74.6	73	78.8%
53	1.5508	1523	0.3309	68	2857	2.1	103681	76.7	76	80.3%
54	1.6641	1547	0.3425	71	2845	2.1	106526	78.8	78	81.8%
55	1.7859	1572	0.3558	73	2977	2.2	109503	81	80	83.3%
56	1.9179	1599	0.3712	77	2924	2.2	112427	83.2	82	84.8%
57	2.0623	1629	0.3892	80	3007	2.2	115434	85.4	84	86.4%

Raw Score	Logit	Scale Score	Logit SE	Scale Score SE	Freq	Freq %	Cum Freq	Cum Freq %	Percentile	Percent Correct
58	2.222	1662	0.4104	85	3112	2.3	118546	87.7	87	87.9%
59	2.4008	1699	0.4359	90	3036	2.2	121582	89.9	89	89.4%
60	2.6043	1741	0.4673	96	3091	2.3	124673	92.2	91	90.9%
61	2.8408	1789	0.5068	105	2821	2.1	127494	94.3	93	92.4%
62	3.1238	1848	0.5594	115	2588	1.9	130082	96.2	95	93.9%
63	3.4778	1921	0.6348	131	2194	1.6	132276	97.8	97	95.5%
64	3.9564	2020	0.7594	157	1694	1.3	133970	99.1	98	97.0%
65	4.7297	2179	1.0409	215	905	0.7	134875	99.8	99	98.5%
66	5.9936	2440	1.8496	382	325	0.2	135200	100	99	100.0%