National Center and State Collaborative

NCSC Initial Core Item List Report

April 2015

100 Education Way, Dover, NH 03820 (800) 431-8901
WWW.MEASUREDPROGRESS.ORG

Table of Contents

Introduction 1
Classical Statistics Summary 8
Item Response Theory Results Summary 11
Recommendations 34
Appendix A—Test Map for Core Items

List of Tables

Table 1. Test Length: Mathematics 2
Table 2. Test Length: Reading 2
Table 3. Number of Points for Common and Unique Items: Mathematics 3
Table 4. Number of Points for Common and Unique Items: Reading 4
Table 5. Number of Points on Each Tier 5
Table 6. Classical Statistic for Mathematics: Means and Standard Deviations 9
Table 7. Classical Statistic for Reading: Means and Standard Deviations 10
Table 8. Mean and Standard Deviation of Rasch Difficulty Parameter Estimates (*b*) and Standard Errors (SE): Mathematics 12
Table 9. Mean and Standard Deviation of Rasch Difficulty Parameter Estimates (*b*) and Standard Errors (SE): Reading 13
Table 10. Number of Negative Item-total Correlations by Form: Mathematics 30
Table 11. Number of Negative Item-total Correlations by Form: Reading 30
Table 12. Minimum and Maximum *p*-values and Item-total Correlations for Each Grade/Content Area 32
Table 13. Minimum and Maximum Rasch Difficulty Parameter Estimates (*b*) and Standard Errors (SE) 33

List of Figures

Figure 1. Test Characteristic Curve for Grade 3 Mathematics 15
Figure 2. Test Information Function and Standard Error for Grade 3 Mathematics 15
Figure 3. Test Characteristic Curve for Grade 4 Mathematics 16
Figure 4. Test Information Function and Standard Error for Grade 4 Mathematics 16
Figure 5. Test Characteristic Curve for Grade 5 Mathematics 17
Figure 6. Test Information Function and Standard Error for Grade 5 Mathematics 17
Figure 7. Test Characteristic Curve for Grade 6 Mathematics 18
Figure 8. Test Information Function and Standard Error for Grade 6 Mathematics 18
Figure 9. Test Characteristic Curve for Grade 7 Mathematics 19
Figure 10. Test Information Function and Standard Error for Grade 7 Mathematics 19
Figure 11. Test Characteristic Curve for Grade 8 Mathematics 20
Figure 12. Test Information Function and Standard Error for Grade 8 Mathematics 20
Figure 13. Test Characteristic Curve for Grade 11 Mathematics 21
Figure 14. Test Information Function and Standard Error for Grade 11 Mathematics 21
Figure 15. Test Characteristic Curve For Grade 3 Reading 22
Figure 16. Test Information Function and Standard Error for Grade 3 Reading 22
Figure 17. Test Characteristic Curve for Grade 4 Reading 23
Figure 18. Test Information Function and Standard Error for Grade 4 Reading 23
Figure 19. Test Characteristic Curve for Grade 5 Reading 24
Figure 20. Test Information Function and Standard Error for Grade 5 Reading 24
Figure 21. Test Characteristic Curve for Grade 6 Reading 25
Figure 22. Test Information Function and Standard Error for Grade 6 Reading 25
Figure 23. Test Characteristic Curve for Grade 7 Reading 26
Figure 24. Test Information Function and Standard Error for Grade 7 Reading 26
Figure 25. Test Characteristic Curve for Grade 8 Reading 27
Figure 26. Test Information Function and Standard Error for Grade 8 Reading 27
Figure 27. Test Characteristic Curve For Grade 11 Reading 28
Figure 28. Test Information Function and Standard Error for Grade 11 Reading 28

Introduction

For the spring 2015 administration, NCSC will be reporting out student scores based on a selected set of items for mathematics and reading. EdCount provided Measured Progress with a suggested list of items to be operationally scored on each test form. Each grade level will have four forms each for mathematics and reading. For mathematics, 40 multiple-choice (MC) items (per form) will be administered; 35 of them will count towards the students' final scores (hereinafter, these items will be referred to as "core" items). For reading, every form consisted of items associated with five passages (24 to 30 items per form). The items associated with four of the passages were selected to be core items. Since core items were selected based on passages for reading and different passages could have different numbers of items associated with them, the core test length varied across the reading forms. All core item selections were made based entirely on ensuring the best possible content characteristics for each form. Content considerations consisted of, for example, the content representativeness of each form in terms of the standards and depth of knowledge, readability, cueing, tiers, etc. The item selections were based on content considerations because of the inherent limitations of the statistical evidence from the stand-alone field tests. The purpose of this report is to augment the content evidence by presenting the limited statistical evidence and thus provide the most complete description of the selected test forms. The reader should bear in mind this context so that the presented results are not over interpreted relative to the primary content considerations. Note that while some content evidence is presented in this report, the presentation of such evidence is limited in the current report to keep the size of the report manageable. Greater detail in regard to the content characteristics can be provided upon request.

Tables 1 and 2 below lay out the test length for each form for mathematics and reading, respectively. Note that test length is defined as the maximum number of possible operationally scored points on each form. Moreover, Tables 3 and 4 provide the breakdown of points depending on whether the items are "common" to *all* four forms within a particular grade/content area or "unique" to a specific form. For mathematics, all 20 items that served as common items in Pilot 2 were selected as core items for the 2015 operational administration. Hence, all forms had 20 common items and 15 unique items. However, with reading, some Pilot 2 common items were not selected as core items, resulting in only six common item points in most grades (when examined pairwise, any chosen pair of forms had 10 to 19 common item points). Additionally, in Table 5, the number of possible points on each tier is given by forms.

TABLE 1. TEST LENGTH: MATHEMATICS

Grade	Form 1	Form 2	Form 3	Form 4
3	35	35	35	35
4	35	35	35	35
5	35	35	35	35
6	35	35	35	35
7	35	35	35	35
8	35	35	35	35
11	35	35	35	35

**Test length was defined as the maximum raw score points examinees can obtain.*

TABLE 2. TEST LENGTH: READING

Grade	Form 1	Form 2	Form 3	Form 4
3	24	26	24	24
4	25	27	25	25
5	24	24	26	22
6	24	23	24	23
7	25	26	25	26
8	25	26	25	26
11	23	24	24	26

**Test length was defined as the maximum raw score points examinees can obtain.*

TABLE 3. NUMBER OF POINTS FOR COMMON AND UNIQUE ITEMS: MATHEMATICS

Grade	Form 1		Form 2		Form 3		Form 4	
	Common	Unique	Common	Unique	Common	Unique	Common	Unique
3	20	15	20	15	20	15	20	15
4	20	15	20	15	20	15	20	15
5	20	15	20	15	20	15	20	15
6	20	15	20	15	20	15	20	15
7	20	15	20	15	20	15	20	15
8	20	15	20	15	20	15	20	15
11	20	15	20	15	20	15	20	15

TABLE 4. NUMBER OF POINTS FOR COMMON AND UNIQUE ITEMS: READING

Grade	Form 1		Form 2		Form 3		Form 4	
	Common	Unique	Common	Unique	Common	Unique	Common	Unique
3	6	18	6	20	6	18	6	18
4	6	19	6	21	6	19	6	19
5	6	18	6	18	6	20	6	16
6	6	18	6	17	6	18	6	17
7	6	19	6	20	6	19	6	20
8	6	19	6	20	6	19	6	20
11	13	10	13	11	13	11	13	13

TABLE 5. NUMBER OF POINTS ON EACH TIER

Grade	Form	Mathematics				Reading			
		Tier 1	Tier 2	Tier 3	Tier 4	Tier 1	Tier 2	Tier 3	Tier 4
3	1	7	12	12	4	4	7	13	0
	2	7	12	12	4	6	7	11	0
	3	7	12	12	4	5	7	11	1
	4	7	12	12	4	5	13	0	6
4	1	7	12	12	4	6	6	13	0
	2	7	12	12	4	7	6	12	0
	3	7	12	12	4	4	6	14	1
	4	7	12	12	4	6	12	0	7
5	1	7	12	12	4	5	6	13	0
	2	7	12	12	4	5	6	13	0

5	3	7	12	12	4	4	6	16	0
	4	7	12	12	4	5	11	0	7
6	1	7	12	13	3	6	6	12	0
	2	7	12	13	3	5	12	6	0
	3	7	12	13	3	6	6	12	0
	4	7	12	13	3	5	12	0	6
7	1	7	13	12	3	8	6	11	0
	2	7	13	12	3	4	12	10	0
	3	7	13	12	3	8	6	11	0
	4	7	13	12	3	4	12	0	10
8	1	7	12	12	4	8	6	11	0
	2	7	12	12	4	4	16	6	0
	3	7	12	12	4	4	6	15	0

8	4	7	12	12	4	4	12	0	10
11	1	7	12	13	3	12	5	6	0
	2	7	12	13	3	8	5	11	0
	3	7	12	13	3	8	5	11	0
	4	7	12	13	3	8	10	0	8

Classical Statistics Summary

Measured Progress ran analyses (i.e., classical statistics and item response theory [IRT] statistics) to examine the degree of equivalence of the four forms within each grade for each of the two content areas. All analyses were run on the basis of pilot test item-level data from the fall of 2014 provided by CTB.

Presented in Tables 3 and 4, for mathematics and reading, respectively, are the means and standard deviations (in parentheses) over the selected items for each form for the *p*-values and item-total correlations. The *p*-value (i.e., difficulty) is defined as the average proportion of points achieved on an item and is measured by obtaining the average score on an item and dividing it by the maximum possible score for the item. The item-total correlation (i.e., discrimination index) is defined as the correlation between the score on the item and the total score on the remaining operationally scored items. This statistic can be thought of as a measure of how closely an item assesses the same knowledge and skills assessed by the other items contributing to the total score.

TABLE 6. CLASSICAL STATISTIC FOR MATHEMATICS: MEANS AND STANDARD DEVIATIONS

Grade	Statistic	Form 1	Form 2	Form 3	Form 4
3	*p*-value	.52 (.13)	.52 (.14)	.49 (.14)	.52 (.13)
	Item-total correlation	.24 (.11)	.29 (.14)	.28 (.11)	.28 (.12)
4	*p*-value	.46 (.14)	.47 (.15)	.47 (.15)	.45 (.15)
	Item-total correlation	.23 (.14)	.17 (.16)	.18 (.13)	.14 (.12)
5	*p*-value	.47 (.15)	.47 (.16)	.45 (.15)	.47 (.15)
	Item-total correlation	.11 (.08)	.20 (.11)	.15 (.11)	.17 (.12)
6	*p*-value	.51 (.13)	.51 (.13)	.50 (.12)	.50 (.14)
	Item-total correlation	.21 (.13)	.22 (.13)	.21 (.15)	.21 (.12)
7	*p*-value	.50 (.15)	.52 (.14)	.50 (.15)	.49 (.15)
	Item-total correlation	.19 (.11)	.26 (.14)	.25 (.12)	.19 (.10)
8	*p*-value	.51 (.11)	.52 (.13)	.49 (.12)	.48 (.12)
	Item-total correlation	.23 (.09)	.20 (.12)	.23 (.12)	.20 (.10)
11	*p*-value	.48 (.13)	.48 (.12)	.50 (.11)	.48 (.11)
	Item-total correlation	.25 (.10)	.20 (.12)	.21 (.12)	.27 (.11)

**Numbers in parenthesis indicate the standard deviation of the statistic.*

TABLE 7. CLASSICAL STATISTIC FOR READING: MEANS AND STANDARD DEVIATIONS

Grade	Statistic	Form 1	Form 2	Form 3	Form 4
3	*p*-value	.58 (.18)	.61 (.17)	.58 (.22)	.61 (.19)
	Item-total correlation	.31 (.12)	.29 (.15)	.29 (.17)	.36 (.13)
4	*p*-value	.58 (.15)	.57 (.16)	.57 (.16)	.59 (.14)
	Item-total correlation	.36 (.12)	.32 (.11)	.42 (.14)	.38 (.13)
5	*p*-value	.57 (.16)	.60 (.14)	.57 (.12)	.59 (.15)
	Item-total correlation	.24 (.11)	.25 (.09)	.31 (.14)	.30 (.13)
6	*p*-value	.63 (.14)	.62 (.20)	.62 (.14)	.64 (.19)
	Item-total correlation	.33 (.10)	.33 (.13)	.34 (.11)	.29 (.17)
7	*p*-value	.64 (.13)	.61 (.14)	.64 (.14)	.58 (.15)
	Item-total correlation	.38 (.17)	.32 (.16)	.31 (.13)	.28 (.08)
8	*p*-value	.64 (.14)	.64 (.13)	.58 (.16)	.58 (.16)
	Item-total correlation	.27 (.10)	.31 (.13)	.27 (.12)	.29 (.16)
11	*p*-value	.71 (.16)	.67 (.16)	.66 (.16)	.69 (.13)
	Item-total correlation	.32 (.12)	.31 (.13)	.32 (.13)	.38 (.12)

**Numbers in parenthesis indicate the standard deviation of the statistic.*

In terms of classical statistics, the similarity of the four forms within each grade/content with respect to difficulty and discrimination was judged as quite acceptable, considering that these values are from a limited stand-alone field test. All of the above means and standard deviations were judged to be well within the ranges that might typically occur. Still, the reader should keep in mind that they are likely to change when the forms are administered operationally.

Item Response Theory Results Summary

Using the Rasch IRT item parameters calibrated by CTB, the test characteristic curve (TCC), test information function (TIF), and standard error of measurement (SEM) curves were built for each form. IRT uses mathematical models to define a relationship between an unobserved measure of student performance, usually referred to as theta (θ), and the probability (p) of getting a dichotomous item correct or of getting a particular score on a polytomous item. TCCs display the expected (average) raw score associated with each θ_j value between –4.0 and 4.0. The TIF depicts test precision at each value of θ_j. There is an inverse relationship between the information of a test and its SEM.

Tables 8 and 9 provide are the means and standard deviations (in parentheses) over the selected items for each form for the Rasch difficulty parameter estimate (i.e., b) and the standard error of the estimate for mathematics and reading, respectively.

TABLE 8. MEAN AND STANDARD DEVIATION OF RASCH DIFFICULTY PARAMETER ESTIMATES (*B*) AND STANDARD ERRORS (SE): MATHEMATICS

Grade	Statistic	Form 1	Form 2	Form 3	Form 4
3	*b*	-.16 (.62)	-.05 (.69)	-.12 (.65)	-.05 (.64)
	SE	1.01 (.12)	1.00 (.14)	1.00 (.10)	.99 (.10)
4	*b*	-.08 (.66)	-.09 (.73)	-.13 (.72)	-.09 (.71)
	SE	.98 (.09)	1.00 (.11)	.99 (.08)	1.01 (.09)
5	*b*	-.11 (.67)	-.10 (.73)	.01 (.70)	-.06 (.70)
	SE	1.00 (.06)	1.00 (.06)	1.00 (.07)	.99 (.07)
6	*b*	.02 (.63)	-.01 (.65)	.05 (.55)	.07 (.65)
	SE	1.00 (.10)	1.00 (.09)	1.00 (.12)	1.00 (.10)
7	*b*	-.05 (.73)	-.10 (.71)	.03 (.76)	-.06 (.74)
	SE	1.00 (.08)	.98 (.10)	.98 (.09)	1.00 (.08)
8	*b*	-.04 (.55)	-.11 (.63)	-.05 (.63)	.05 (.57)
	SE	1.00 (.07)	1.00 (.08)	.99 (.08)	1.01 (.07)
11	*b*	.03 (.60)	.00 (.54)	-.07 (.52)	.07 (.53)
	SE	.99 (.09)	1.00 (.10)	1.00 (.11)	1.00 (.10)

**Numbers in parenthesis indicate the standard deviation of the statistic.*

TABLE 9. MEAN AND STANDARD DEVIATION OF RASCH DIFFICULTY PARAMETER ESTIMATES (*B*) AND STANDARD ERRORS (SE): READING

Grade	Statistic	Form 1	Form 2	Form 3	Form 4
3	*b*	.32 (.96)	.18 (.99)	.36 (1.30)	.15 (1.04)
	SE	1.02 (.16)	1.02 (.19)	1.02 (.20)	.99 (.14)
4	*b*	.15 (.85)	.04 (.77)	.21 (.97)	.13 (.81)
	SE	1.01 (.21)	1.04 (.18)	1.01 (.20)	1.00 (.18)
5	*b*	.14 (.81)	.10 (.77)	.23 (.64)	.18 (.81)
	SE	1.03 (.17)	1.03 (.15)	1.01 (.14)	.99 (.14)
6	*b*	-.04 (.86)	.04 (1.15)	-.05 (.87)	-.04 (1.14)
	SE	1.01 (.12)	.98 (.15)	1.00 (.14)	.99 (.16)
7	*b*	-.18 (.77)	.04 (.78)	-.09 (.79)	.24 (.84)
	SE	.96 (.18)	.99 (.22)	1.02 (.16)	1.00 (.13)
8	*b*	-.15 (.75)	-.13 (.70)	.20 (.93)	.14 (.79)
	SE	.98 (.10)	.99 (.14)	1.02 (.13)	1.00 (.15)
11	*b*	-.33 (.97)	-.01 (.95)	-.04 (.92)	-.10 (.85)
	SE	.98 (.19)	1.00 (.20)	1.00 (.19)	.95 (.14)

**Numbers in parenthesis indicate the standard deviation of the statistic.*

Figures 1 through 28 present the TCCs, TIFs, and SEM curves for each grade/content. Because the four reading forms for each grade level had more than one maximum possible score, such differences make it difficult to use the TCCs and TIFs to compare the tests in regard to difficulty level and measurement precision. To make for a more fair comparison of the reading TCCs and TIFs, each TCC and TIF was multiplied by a proportionality constant to show what the TCC would look like if it had the same maximum score as the form with the largest maximum score.

FIGURE 1. TEST CHARACTERISTIC CURVE FOR GRADE 3 MATHEMATICS

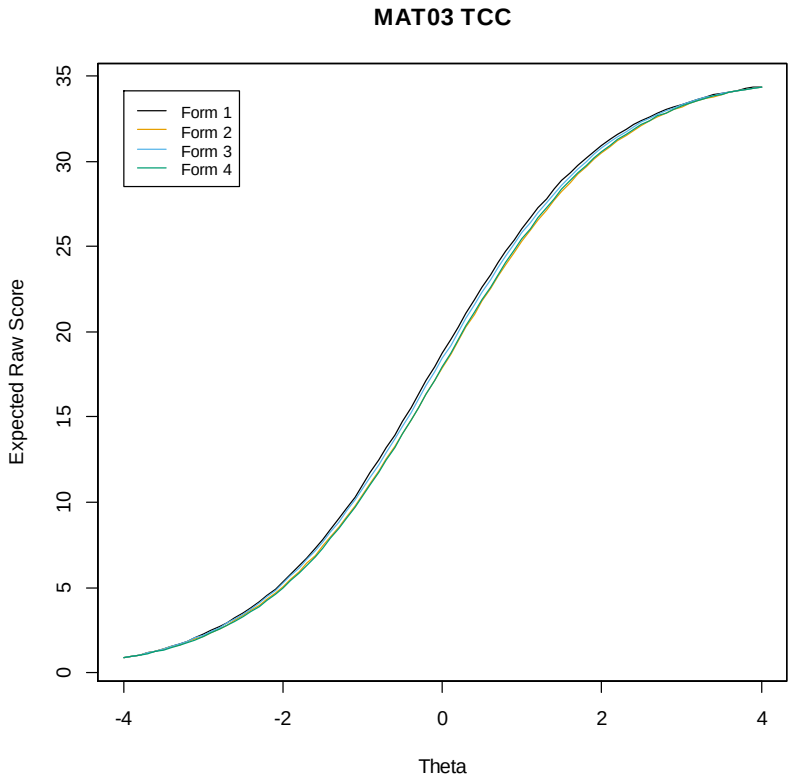


FIGURE 2. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 3 MATHEMATICS

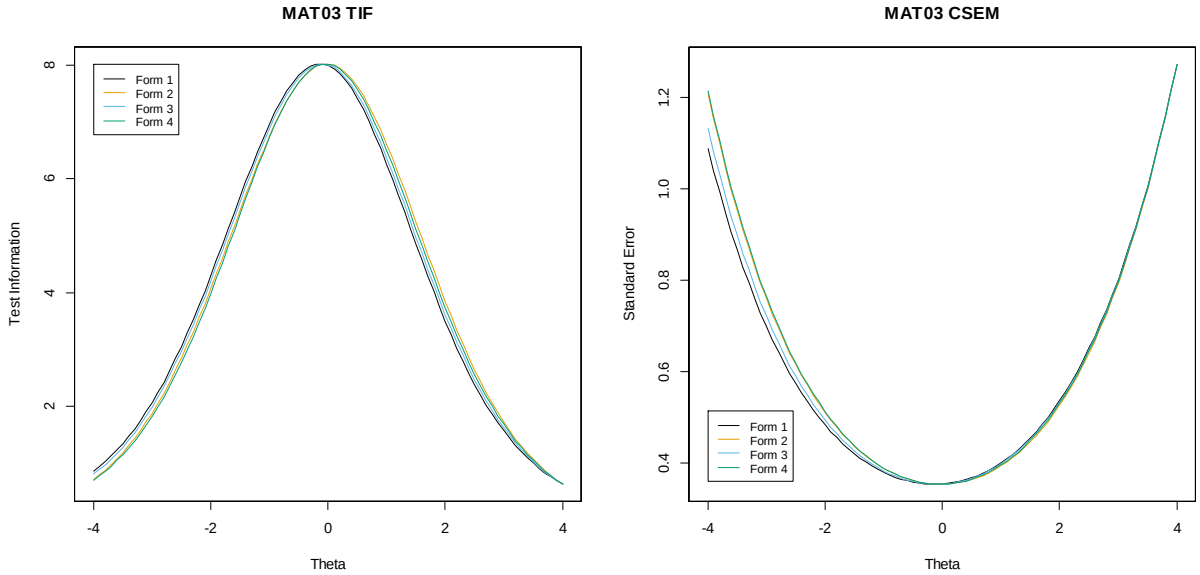


FIGURE 3. TEST CHARACTERISTIC CURVE FOR GRADE 4 MATHEMATICS

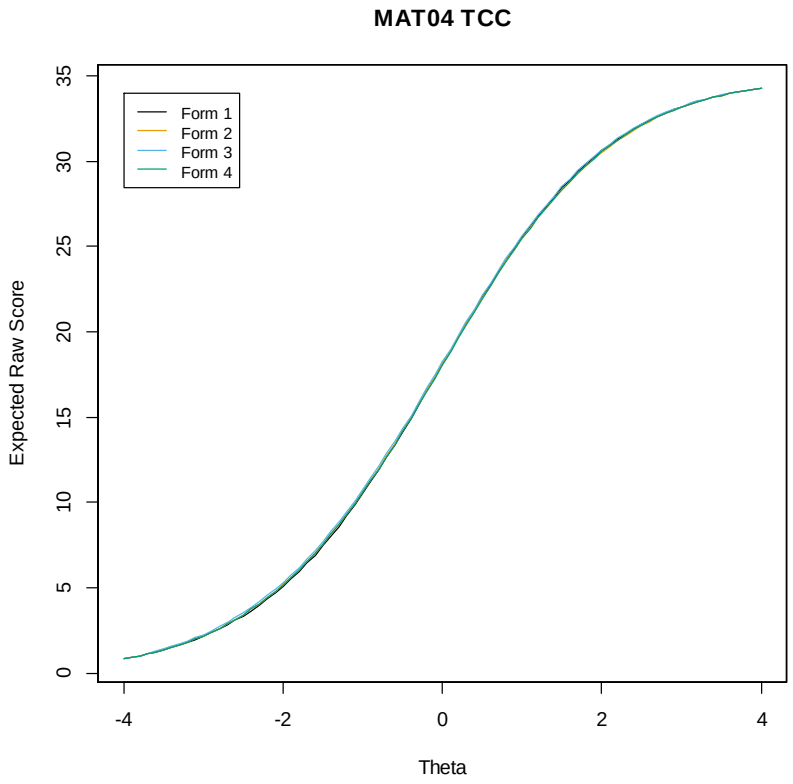


FIGURE 4. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 4 MATHEMATICS

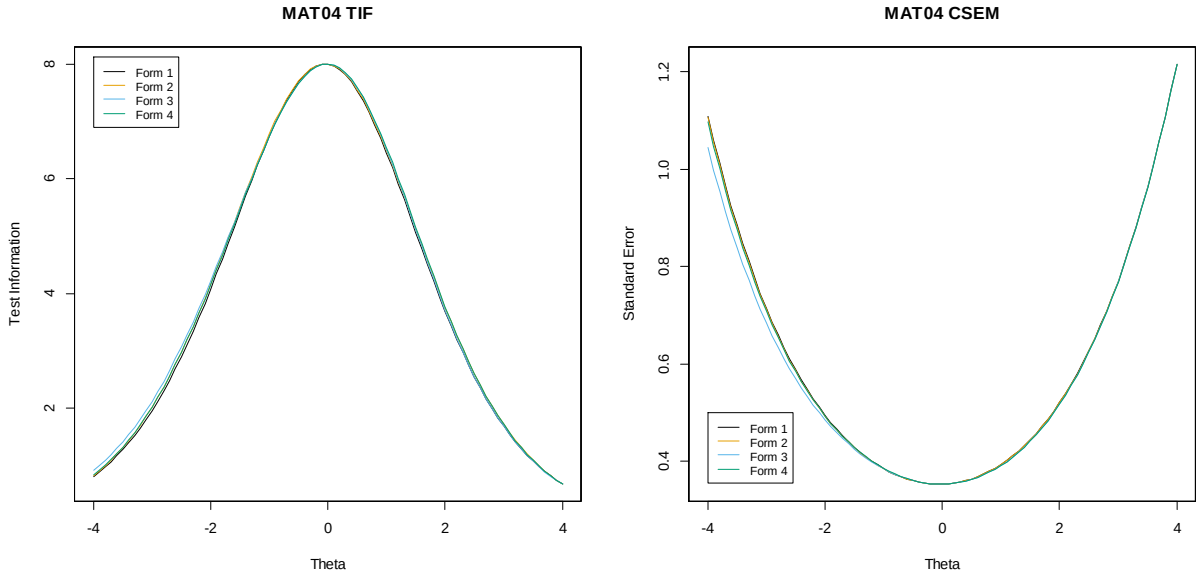


FIGURE 5.TEST CHARACTERISTIC CURVE FOR GRADE 5 MATHEMATICS

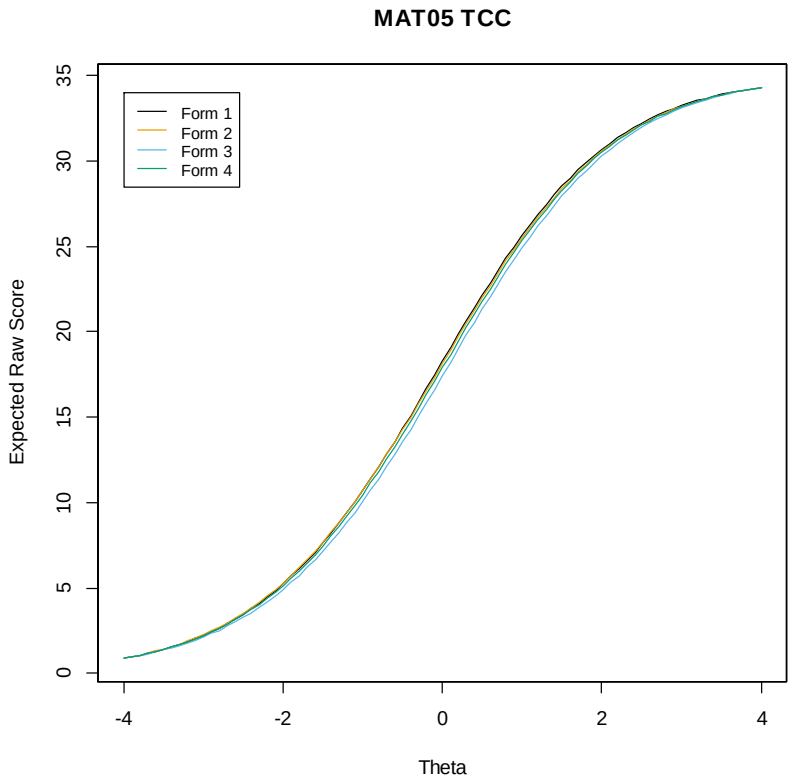


FIGURE 6. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 5 MATHEMATICS

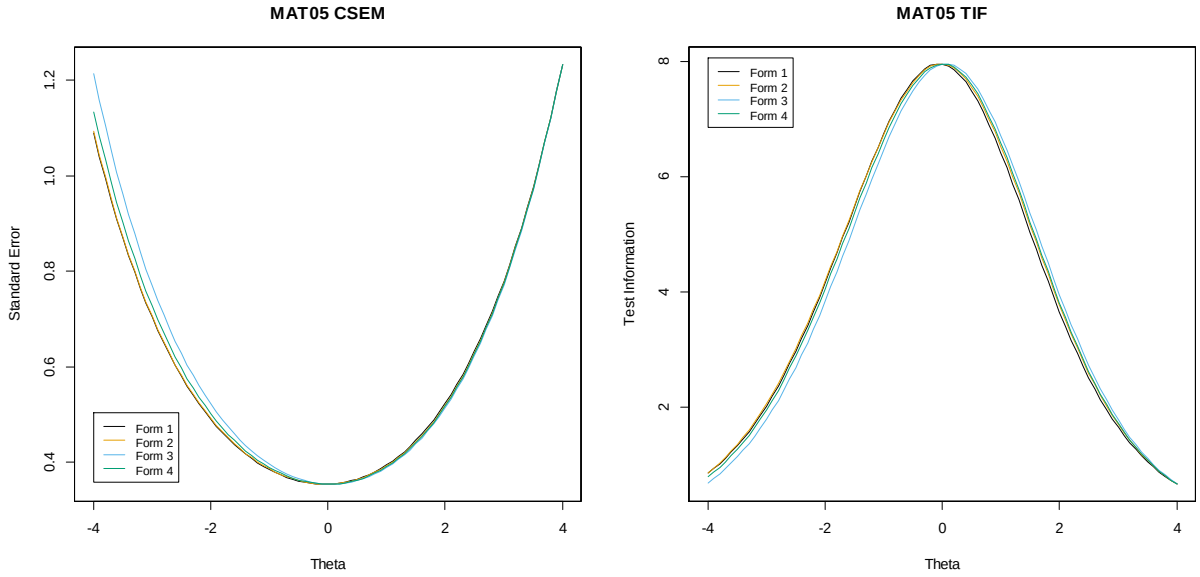


FIGURE 7. TEST CHARACTERISTIC CURVE FOR GRADE 6 MATHEMATICS

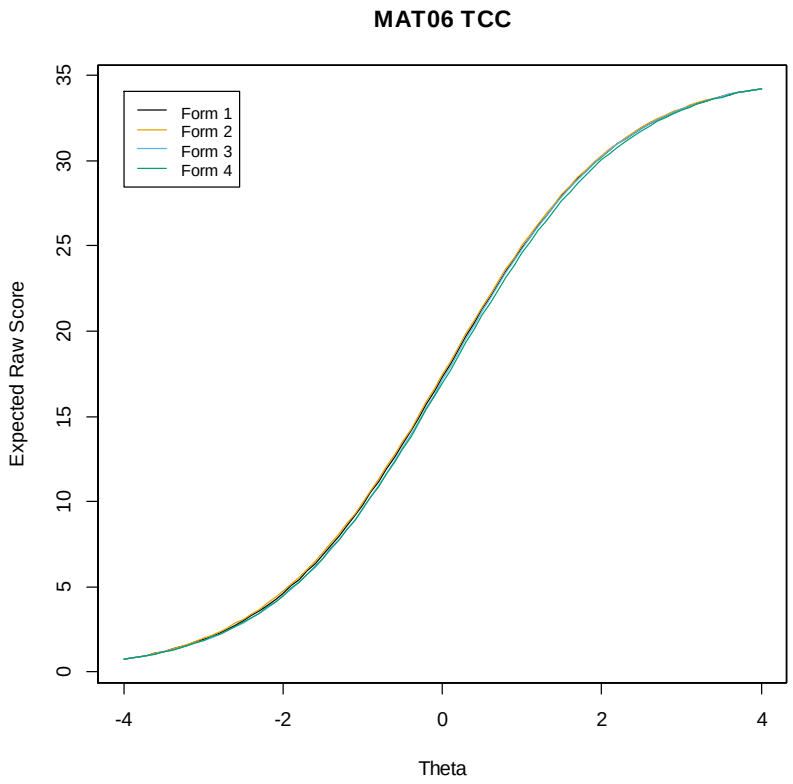


FIGURE 8. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 6 MATHEMATICS

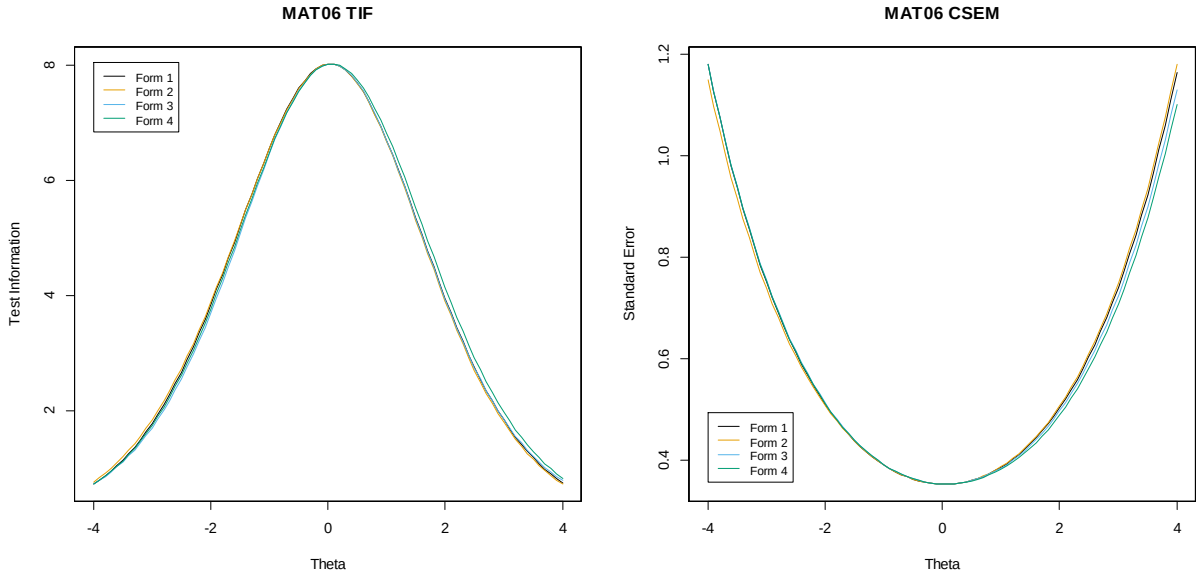


FIGURE 9. TEST CHARACTERISTIC CURVE FOR GRADE 7 MATHEMATICS

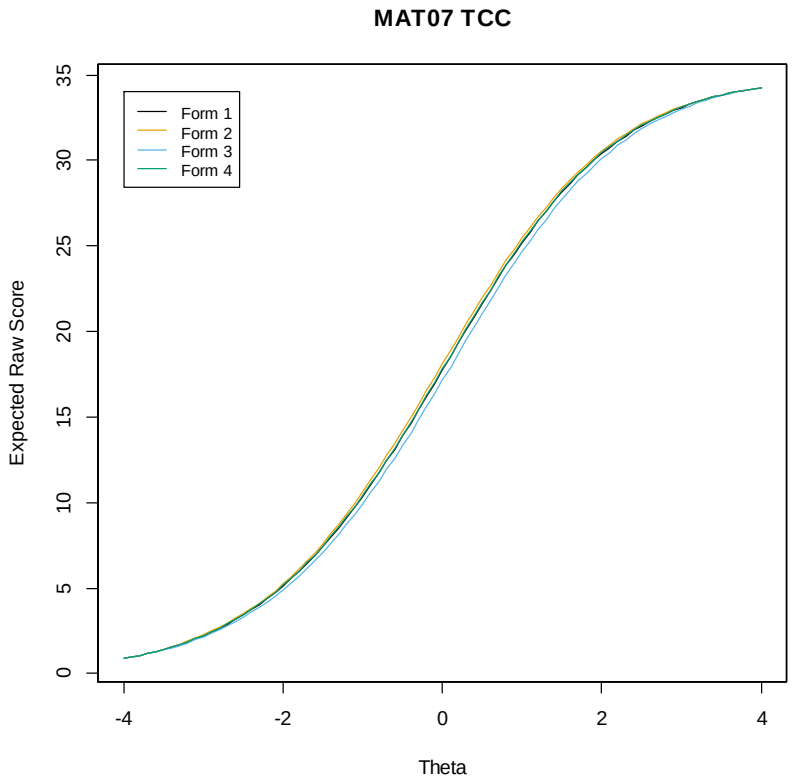


FIGURE 10. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 7 MATHEMATICS

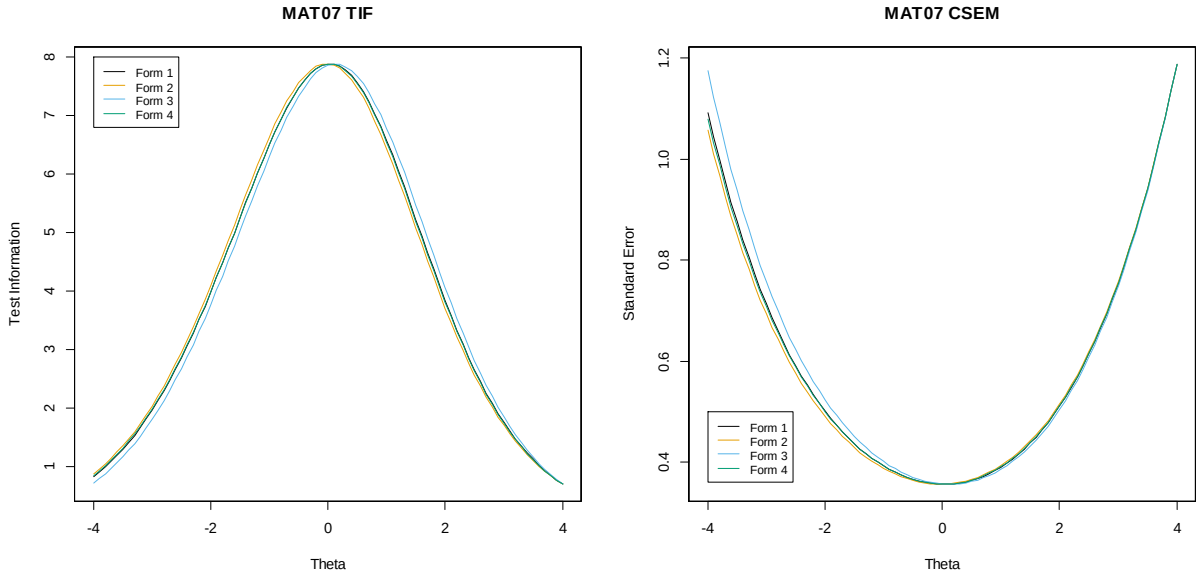


FIGURE 11. TEST CHARACTERISTIC CURVE FOR GRADE 8 MATHEMATICS

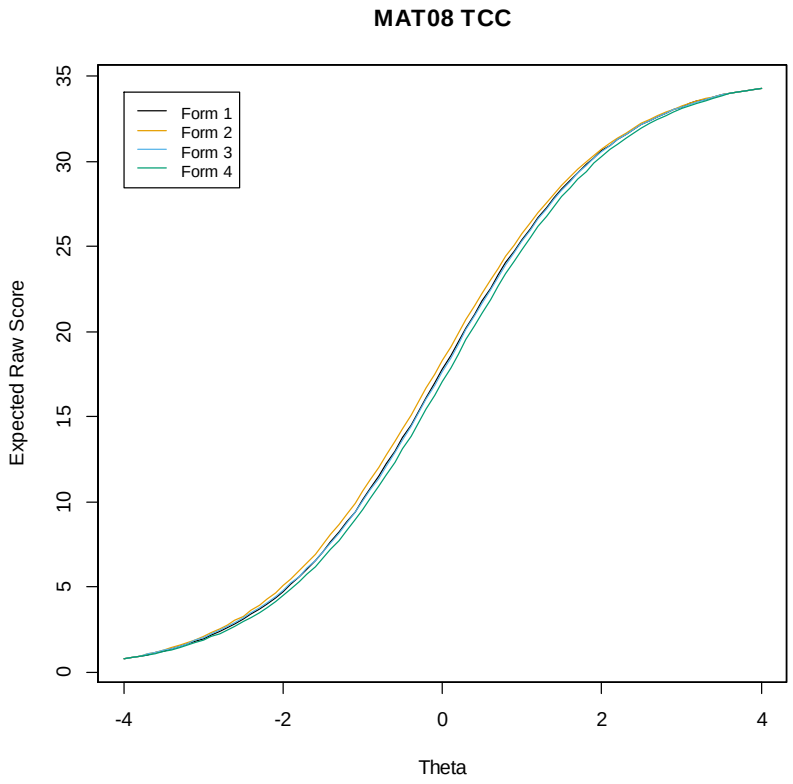


FIGURE 12. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 8 MATHEMATICS

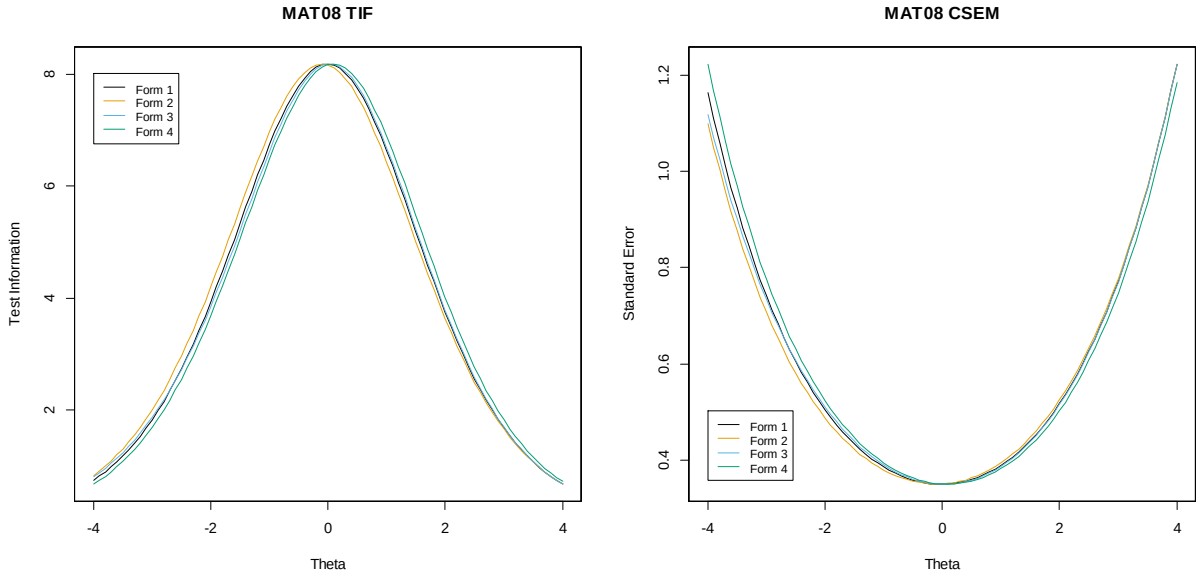


FIGURE 13. TEST CHARACTERISTIC CURVE FOR GRADE 11 MATHEMATICS

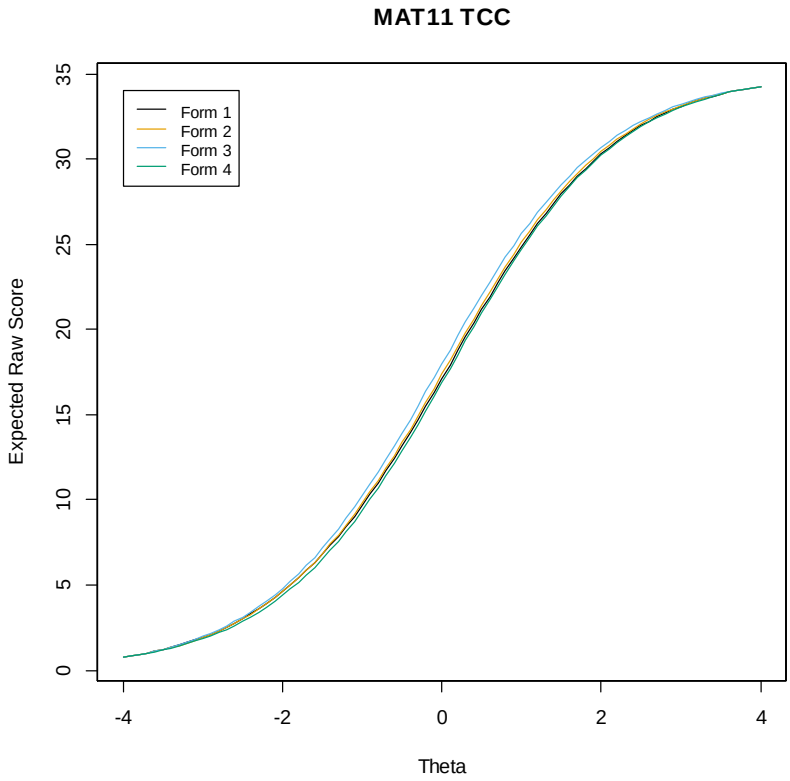


FIGURE 14. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 11 MATHEMATICS

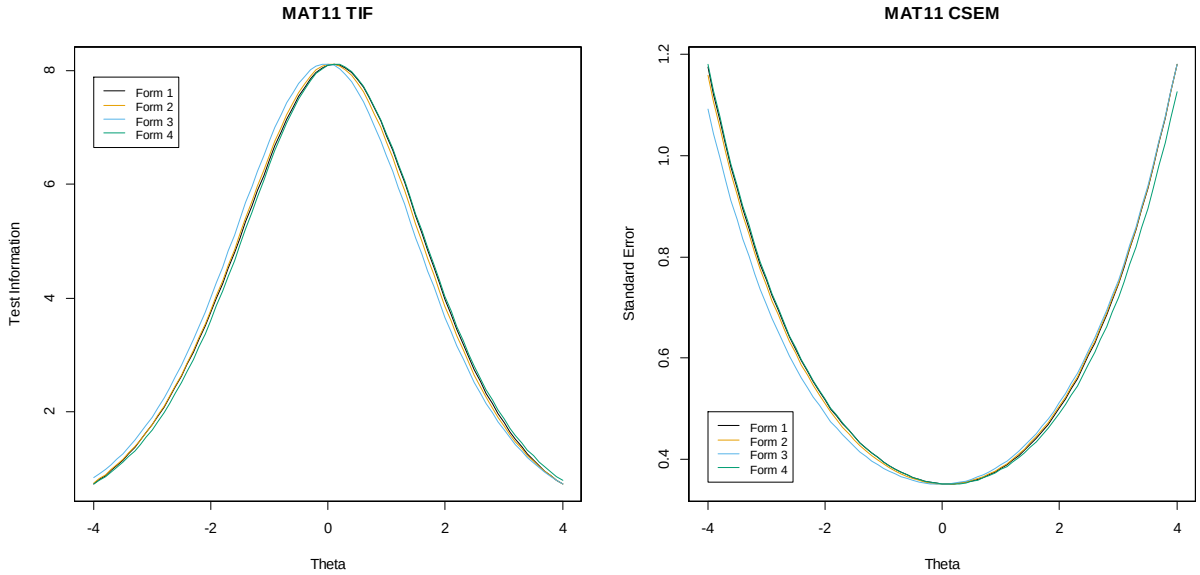


FIGURE 15. TEST CHARACTERISTIC CURVE FOR GRADE 3 READING

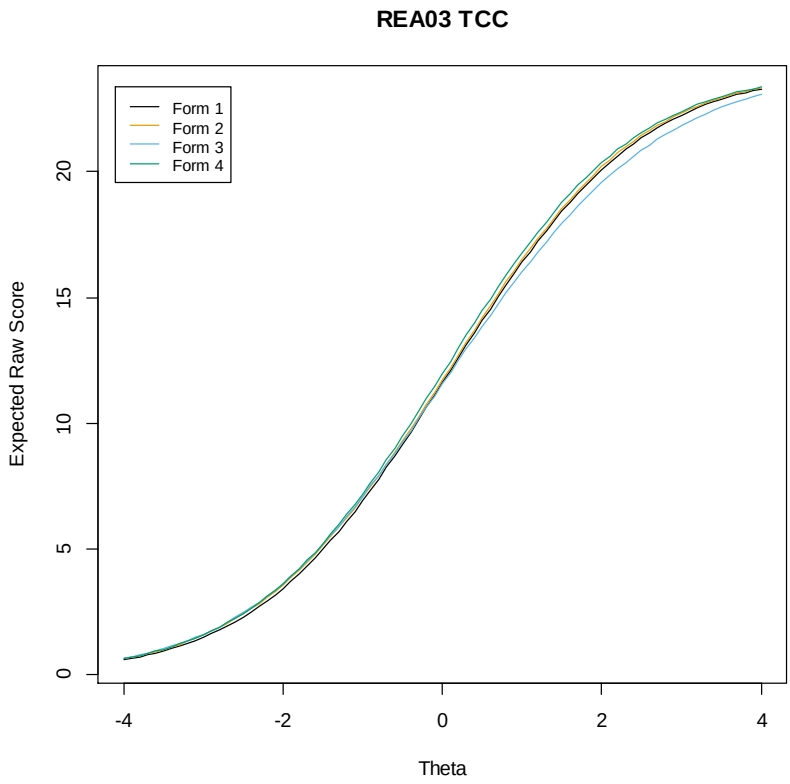


FIGURE 16. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 3 READING

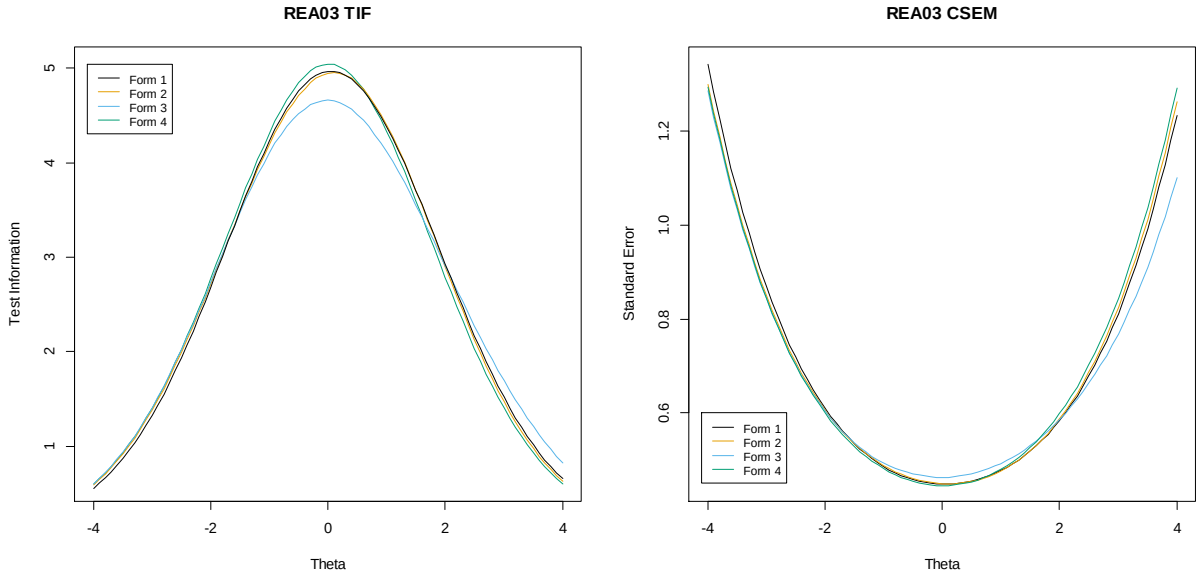


FIGURE 17. TEST CHARACTERISTIC CURVE FOR GRADE 4 READING

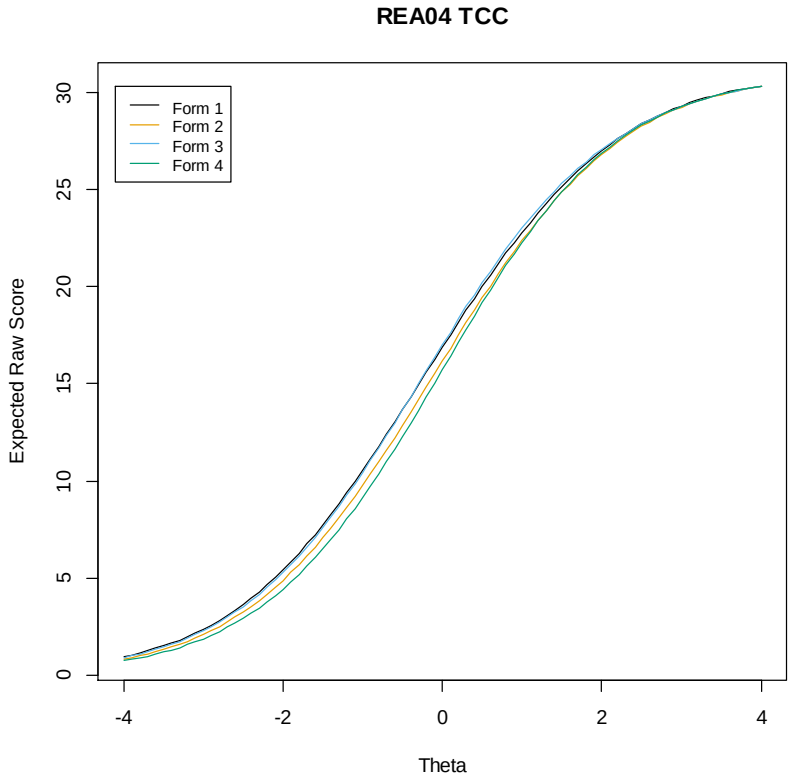


FIGURE 18. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 4 READING

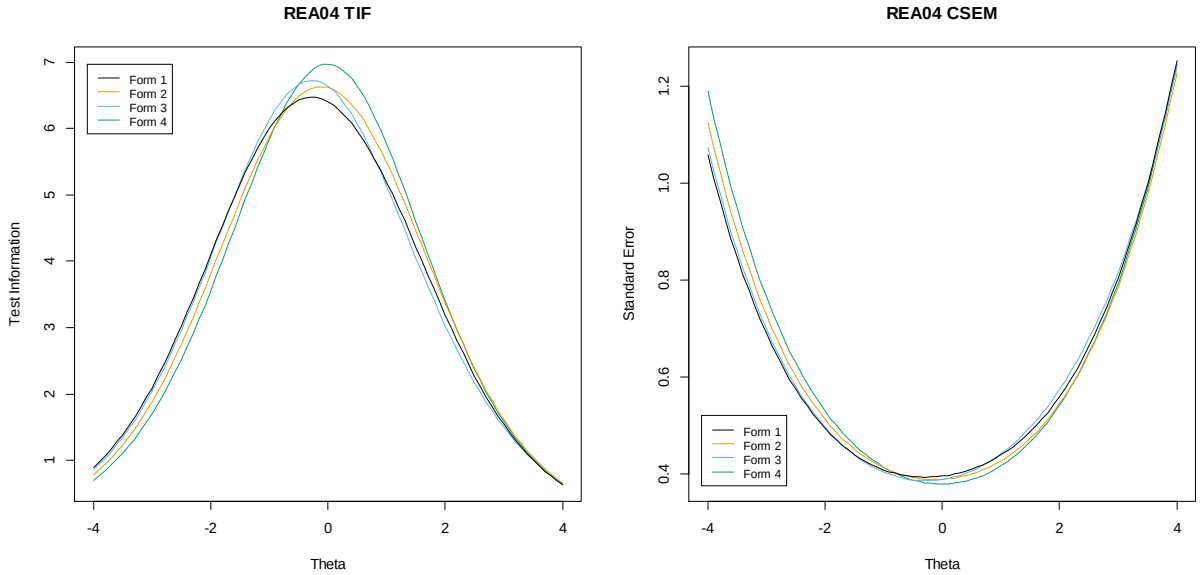


FIGURE 19. TEST CHARACTERISTIC CURVE FOR GRADE 5 READING

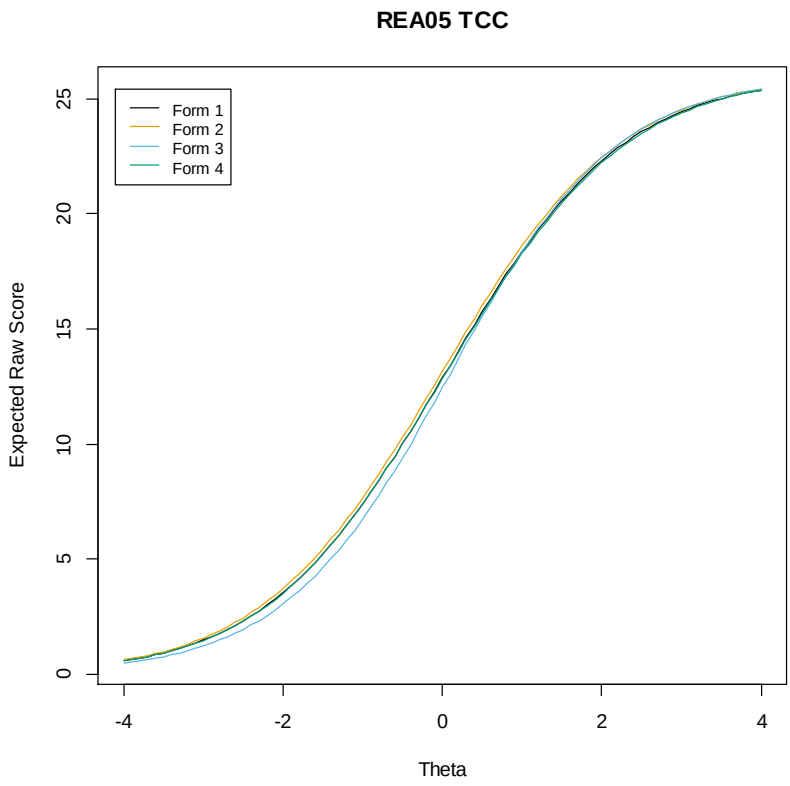


FIGURE 20. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 5 READING

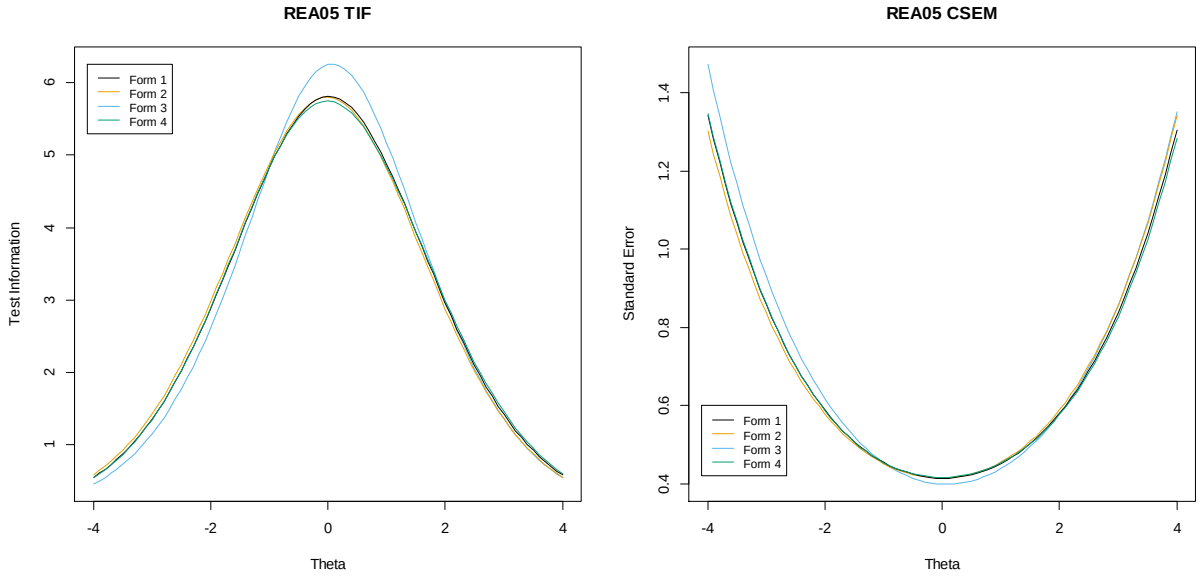


FIGURE 21. TEST CHARACTERISTIC CURVE FOR GRADE 6 READING

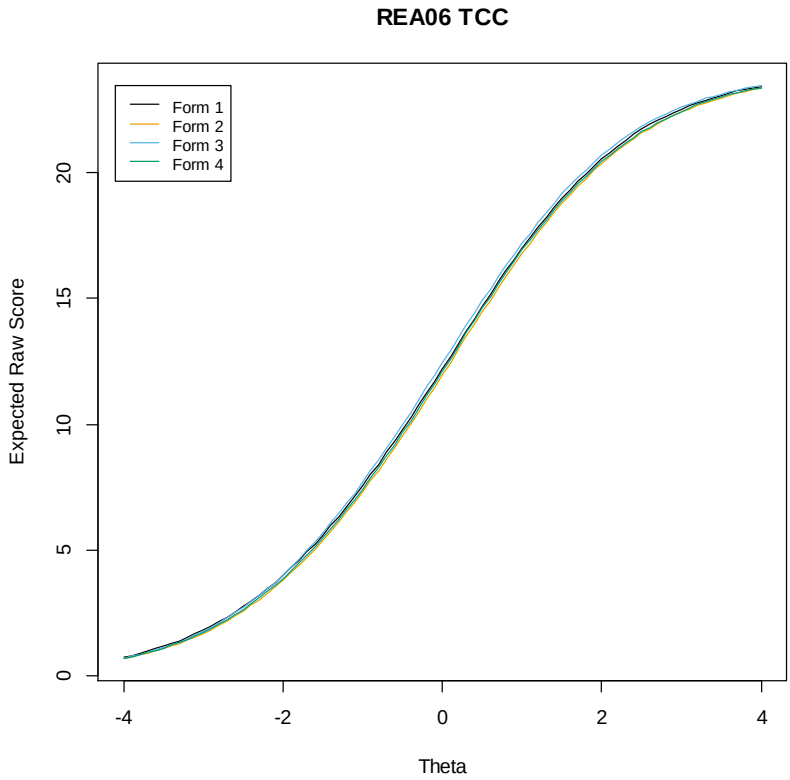


FIGURE 22. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 6 READING

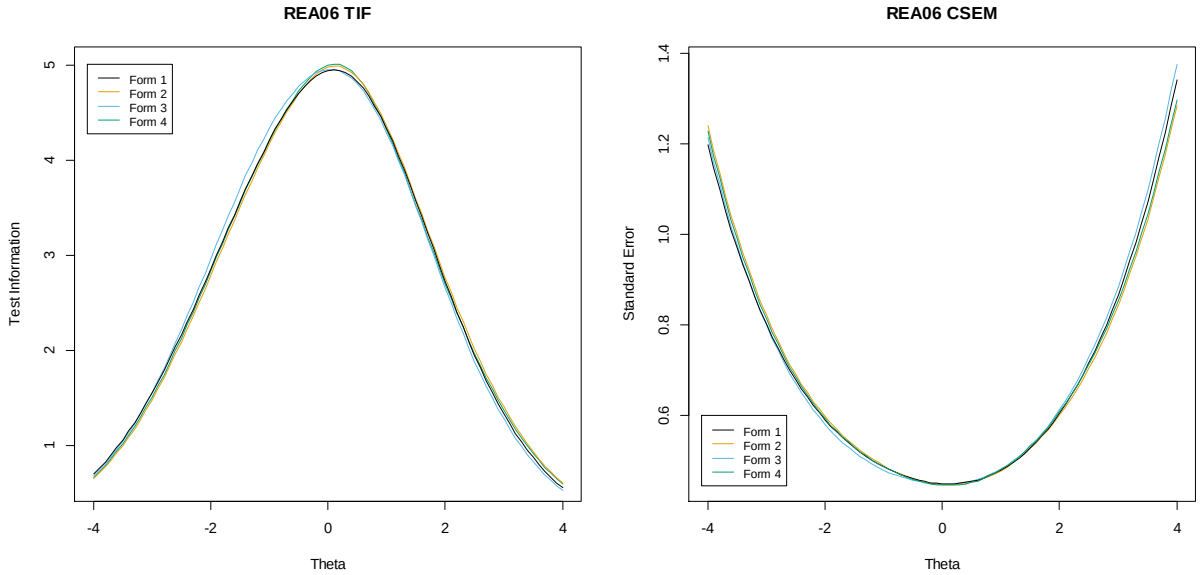


FIGURE 23. TEST CHARACTERISTIC CURVE FOR GRADE 7 READING

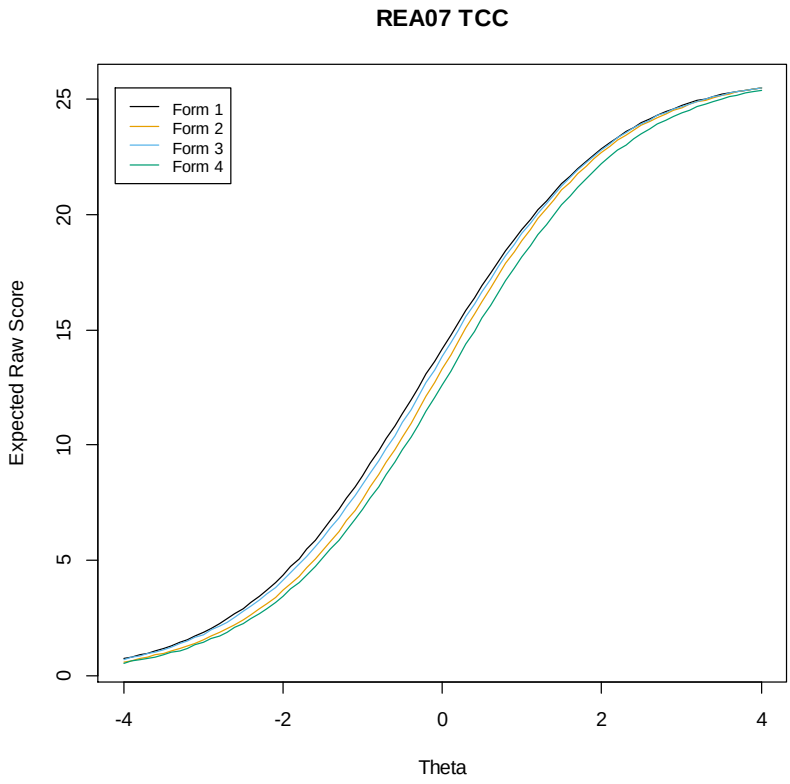


FIGURE 24. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 7 READING

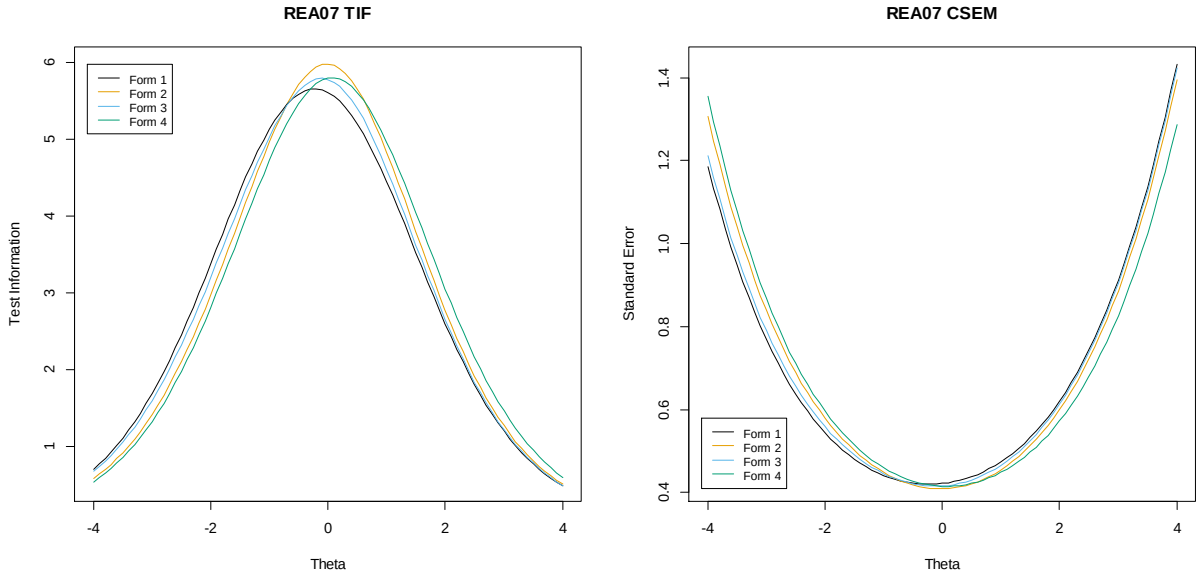


FIGURE 25. TEST CHARACTERISTIC CURVE FOR GRADE 8 READING

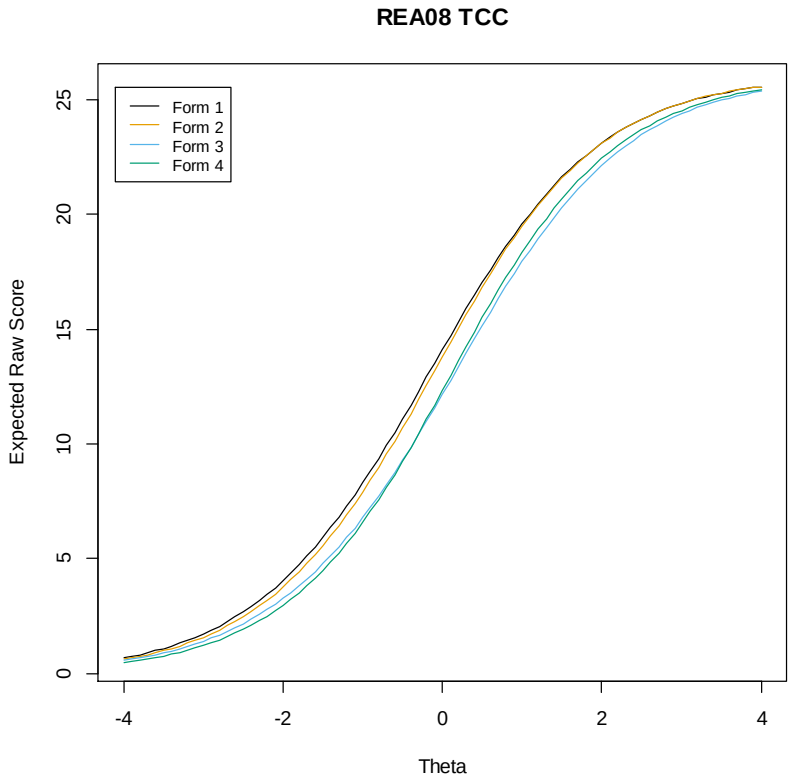


FIGURE 26. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 8 READING

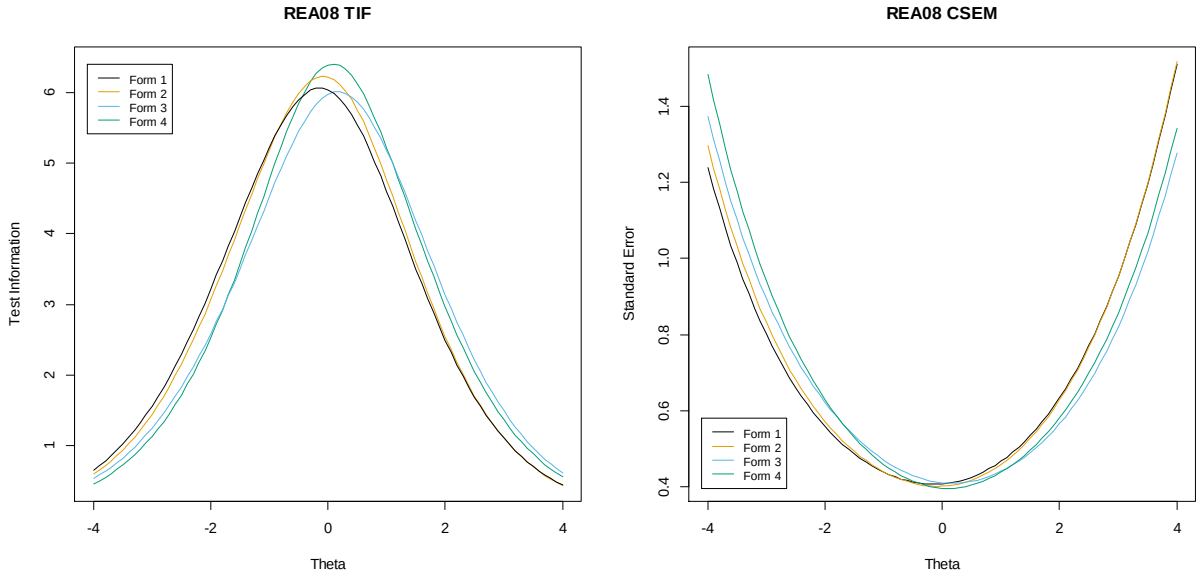


FIGURE 27. TEST CHARACTERISTIC CURVE FOR GRADE 11 READING

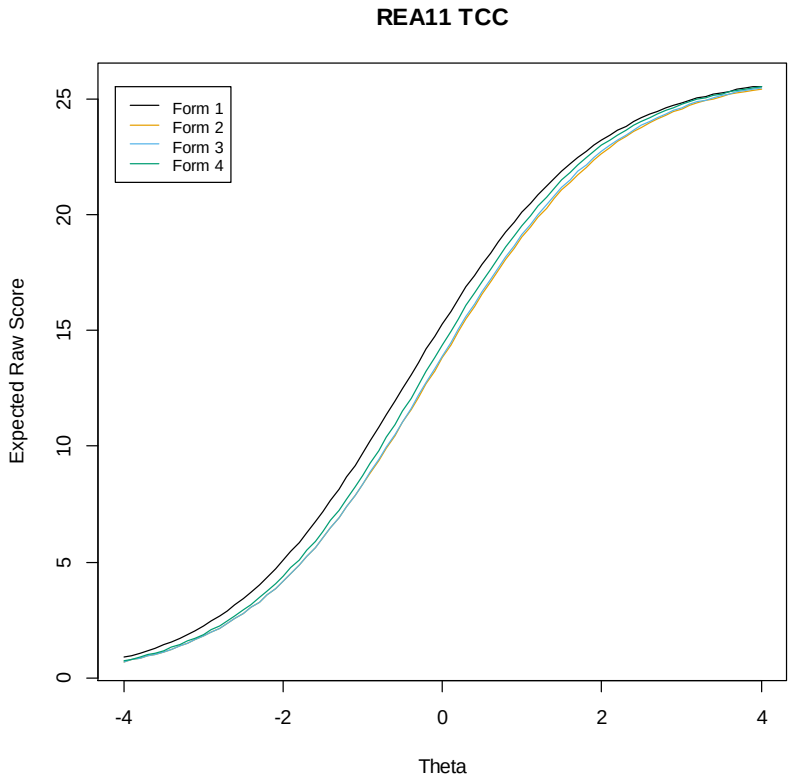
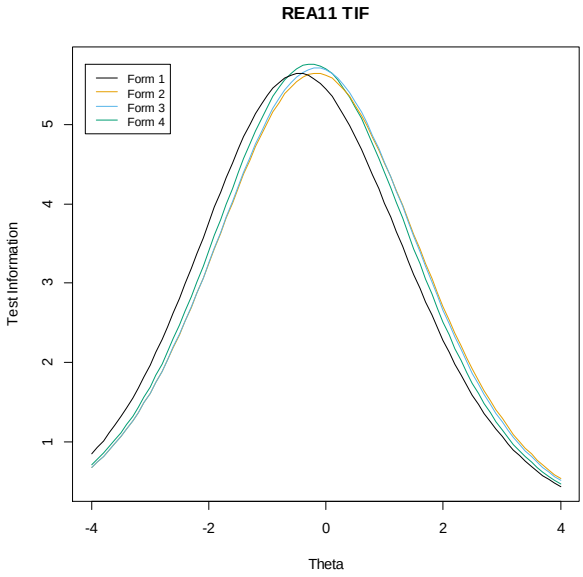
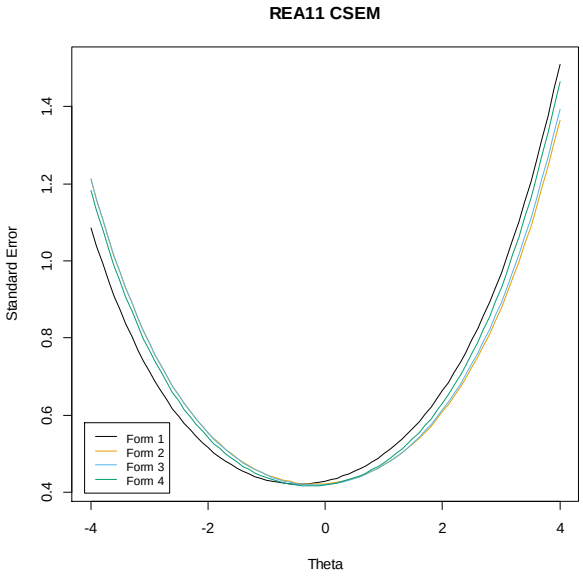


FIGURE 28. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 11 READING





The IRT results indicate a high degree of similarity between the four mathematics forms and the four reading forms at each grade level in terms of both their TCC and TIF, with the similarity being stronger in mathematics than in reading.

After examining the classical statistics and IRT results on on the test-form level, the data were also examined at the item level. The calculation of the item-total correlations revealed that there were some items that had negative correlations. Tables 10 and 11, for mathematics and reading, respectively, display the number of core items with negative item-total correlations on each form. More detailed information on these items are given in the core item test maps in Appendix A.

TABLE 10. NUMBER OF NEGATIVE ITEM-TOTAL CORRELATIONS BY FORM: MATHEMATICS

Grade	Form 1	Form 2	Form 3	Form 4
3	0	0	0	0
4	0	5	1	5
5	3	1	3	2
6	1	2	3	2
7	1	0	1	1
8	0	1	2	0
11	0	2	1	0

TABLE 11. NUMBER OF NEGATIVE ITEM-TOTAL CORRELATIONS BY FORM: READING

Grade	Form 1	Form 2	Form 3	Form 4
3	1	0	2	0
4	0	0	0	0
5	1	1	1	1
6	0	0	0	1
7	0	0	0	0
8	0	0	0	0
11	0	0	0	0

For an operational item or an embedded field test item in an operational administration, a negative point-biserial would typically result in the item being flagged as unacceptable, However, when the negative point-biserials come from a stand-alone field test with limited generalizability, these negative point-biserials must be weighed against the careful content development of the items. In this case, only one of the items was found to be faulty, and it was revised. All the other items were found to be of sound content validity and were deemed satisfactory for operational administration. The *p*-values for the selected core items ranged from .15 to .90, and item-total correlation ranged from -.22 to .71 (More detailed information on the item-level summary statistics is provided in Table 12 and test maps in Appendix A). Additionally, item-level summary statistics for the IRT *b* parameters and their standard errors are given in Table 13.

TABLE 12. MINIMUM AND MAXIMUM *P*-VALUES AND ITEM-TOTAL CORRELATIONS FOR EACH GRADE/CONTENT AREA

Grade	Statistic	Mathematics		Reading	
		p-value	Item-total correlation	*p*-value	Item-total correlation
3	Minimum	.25	.06	.15	-.20
	Maximum	.78	.71	.88	.71
4	Minimum	.16	-.22	.17	.08
	Maximum	.80	.54	.86	.69
5	Minimum	.21	-.13	.27	-.10
	Maximum	.80	.54	.84	.53
6	Minimum	.22	-.12	.26	-.11
	Maximum	.84	.55	.90	.58
7	Minimum	.23	-.07	.36	.00
	Maximum	.87	.53	.90	.62
8	Minimum	.19	-.20	.29	.04
	Maximum	.90	.48	.89	.63
11	Minimum	.32	-.10	.34	.03
	Maximum	.80	.52	.90	.61

TABLE 13. MINIMUM AND MAXIMUM RASCH DIFFICULTY PARAMETER ESTIMATES (*B*) AND STANDARD ERRORS (SE)

Grade	Statistic	Mathematics		Reading	
		b	SE	*b*	SE
3	Minimum	-1.40	0.66	-1.65	0.77
	Maximum	1.42	1.35	2.77	1.62
4	Minimum	-1.71	0.79	-0.62	0.77
	Maximum	1.60	1.30	2.40	1.58
5	Minimum	-1.74	0.82	-1.31	0.84
	Maximum	1.19	1.17	1.58	1.41
6	Minimum	-1.89	0.79	-1.89	0.74
	Maximum	1.52	1.32	2.04	1.38
7	Minimum	-2.11	0.81	-1.85	0.70
	Maximum	1.34	1.27	1.38	1.44
8	Minimum	-2.56	0.84	-1.72	0.66
	Maximum	1.62	1.22	1.55	1.32
11	Minimum	-1.55	0.79	-1.65	0.74
	Maximum	0.98	1.26	1.86	1.57

Recommendations

For the selected core item sets, we concluded that no item swaps were neccesary based on several reasons:

- Current selection does not show vast differences in form difficulties.
- Item swaps can only be made within the preconstructed Pilot 2 forms, thus severely limiting our flexibility in identifying possible swaps that could be made.
- Item statistics used for the classical and IRT analyses came from the pilot data, not operational; it is highly likely that the operational administration will result in more reliable, stable, and accurate classical and IRT statistics.
- Furthermore, 19 core items that were determined to have flaws have gone through edits after the Pilot 2 administration. Out of the 19, one item had a negative item-total correlation.

Appendix A—Test Map for Core Items

Test Map for Core Items on Grade 3 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111434A	MA_03_1	TIER 1	MC	1	0.78	0.17	Number and Operations Fractions
110862A	MA_03_1	TIER 1	MC	2	0.60	0.18	Operations and Algebraic Thinking
110959A	MA_03_1	TIER 1	MC	3	0.68	0.15	Measurement and Data
111424A	MA_03_1	TIER 1	MC	4	0.75	0.20	Operations and Algebraic Thinking
111416A	MA_03_1	TIER 2	MC	5	0.63	0.24	Operations and Algebraic Thinking
111420A	MA_03_1	TIER 2	MC	6	0.39	0.27	Number and Operations Base Ten
112570A	MA_03_1	TIER 3	MC	7	0.43	0.09	Operations and Algebraic Thinking
110923A	MA_03_1	TIER 2	MC	8	0.72	0.28	Operations and Algebraic Thinking
111422A	MA_03_1	TIER 4	MC	9	0.41	0.11	Number and Operations Base Ten
111391A	MA_03_1	TIER 3	MC	10	0.52	0.24	Measurement and Data
110974A	MA_03_1	TIER 2	MC	11	0.42	0.28	Number and Operations Base Ten
111377A	MA_03_1	TIER 2	MC	12	0.59	0.14	Geometry
111411A	MA_03_1	TIER 3	MC	13	0.45	0.12	Number and Operations Fractions
111386A	MA_03_1	TIER 2	MC	14	0.49	0.27	Measurement and Data
112616B	MA_03_1	TIER 3	MC	15	0.32	0.12	Number and Operations Fractions
120682A	MA_03_1	TIER 4	MC	16	0.58	0.24	Geometry
112601A	MA_03_1	TIER 3	MC	17	0.46	0.27	Operations and Algebraic Thinking
111397A	MA_03_1	TIER 3	MC	18	0.54	0.17	Number and Operations Base Ten
112565A	MA_03_1	TIER 2	MC	19	0.33	0.26	Number and Operations Fractions
122091A	MA_03_1	TIER 3	CR - 1pt	20	0.44	0.35	Measurement and Data
112555A	MA_03_1	TIER 1	MC	21	0.73	0.35	Geometry
112564A	MA_03_1	TIER 1	MC	22	0.62	0.35	Number and Operations Fractions
110964A	MA_03_1	TIER 1	MC	24	0.64	0.30	Number and Operations Base Ten
112575A	MA_03_1	TIER 2	MC	27	0.61	0.28	Operations and Algebraic Thinking
111883A	MA_03_1	TIER 3	MC	28	0.37	0.21	Operations and Algebraic Thinking
111382A	MA_03_1	TIER 3	MC	29	0.60	0.41	Geometry
112552A	MA_03_1	TIER 2	MC	31	0.50	0.24	Measurement and Data
111436B	MA_03_1	TIER 3	MC	32	0.42	0.11	Number and Operations Fractions
110855A	MA_03_1	TIER 3	MC	33	0.42	0.44	Measurement and Data
110876A	MA_03_1	TIER 4	MC	34	0.41	0.35	Number and Operations Fractions
110864A	MA_03_1	TIER 2	MC	35	0.59	0.24	Operations and Algebraic Thinking
110865A	MA_03_1	TIER 4	MC	37	0.44	0.08	Operations and Algebraic Thinking
112615B	MA_03_1	TIER 2	MC	38	0.48	0.11	Number and Operations Fractions
112561A	MA_03_1	TIER 3	MC	39	0.36	0.10	Number and Operations Base Ten
122105A	MA_03_1	TIER 2	CR - 1pt	40	0.45	0.59	Measurement and Data

Test Map for Core Items on Grade 3 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111434A	MA_03_2	TIER 1	MC	1	0.78	0.23	Number and Operations Fractions
110862A	MA_03_2	TIER 1	MC	2	0.60	0.26	Operations and Algebraic Thinking
110959A	MA_03_2	TIER 1	MC	3	0.68	0.17	Measurement and Data
111424A	MA_03_2	TIER 1	MC	4	0.75	0.17	Operations and Algebraic Thinking
111416A	MA_03_2	TIER 2	MC	5	0.63	0.24	Operations and Algebraic Thinking
111420A	MA_03_2	TIER 2	MC	6	0.39	0.32	Number and Operations Base Ten
112570A	MA_03_2	TIER 3	MC	7	0.43	0.13	Operations and Algebraic Thinking
110923A	MA_03_2	TIER 2	MC	8	0.72	0.31	Operations and Algebraic Thinking
111422A	MA_03_2	TIER 4	MC	9	0.41	0.13	Number and Operations Base Ten
111391A	MA_03_2	TIER 3	MC	10	0.52	0.16	Measurement and Data
110974A	MA_03_2	TIER 2	MC	11	0.42	0.40	Number and Operations Base Ten
111377A	MA_03_2	TIER 2	MC	12	0.59	0.22	Geometry
111411A	MA_03_2	TIER 3	MC	13	0.45	0.14	Number and Operations Fractions
111386A	MA_03_2	TIER 2	MC	14	0.49	0.18	Measurement and Data
112616B	MA_03_2	TIER 3	MC	15	0.32	0.24	Number and Operations Fractions
120682A	MA_03_2	TIER 4	MC	16	0.58	0.27	Geometry
112601A	MA_03_2	TIER 3	MC	17	0.46	0.31	Operations and Algebraic Thinking
111397A	MA_03_2	TIER 3	MC	18	0.54	0.18	Number and Operations Base Ten
112565A	MA_03_2	TIER 2	MC	19	0.33	0.20	Number and Operations Fractions
122091A	MA_03_2	TIER 3	CR - 1pt	20	0.44	0.45	Measurement and Data
111389A	MA_03_2	TIER 1	MC	21	0.65	0.34	Measurement and Data
111376A	MA_03_2	TIER 1	MC	22	0.73	0.32	Geometry
112579A	MA_03_2	TIER 1	MC	24	0.70	0.23	Number and Operations Base Ten
112571A	MA_03_2	TIER 2	MC	25	0.43	0.53	Operations and Algebraic Thinking
112591A	MA_03_2	TIER 3	MC	26	0.48	0.26	Operations and Algebraic Thinking
112586A	MA_03_2	TIER 3	MC	27	0.32	0.32	Number and Operations Base Ten
112576A	MA_03_2	TIER 3	MC	29	0.30	0.37	Operations and Algebraic Thinking
112560A	MA_03_2	TIER 2	MC	30	0.46	0.10	Number and Operations Base Ten
111435B	MA_03_2	TIER 2	MC	31	0.34	0.27	Number and Operations Fractions
112562A	MA_03_2	TIER 4	MC	33	0.43	0.06	Number and Operations Base Ten
112557A	MA_03_2	TIER 3	MC	35	0.54	0.40	Geometry
111410A	MA_03_2	TIER 2	MC	36	0.42	0.48	Number and Operations Fractions
122087A	MA_03_2	TIER 4	CR - 1pt	37	0.50	0.71	Measurement and Data
112600A	MA_03_2	TIER 2	MC	38	0.70	0.36	Operations and Algebraic Thinking
122097A	MA_03_2	TIER 2	CR - 1pt	40	0.62	0.55	Measurement and Data

Test Map for Core Items on Grade 3 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111434A	MA_03_3	TIER 1	MC	1	0.78	0.22	Number and Operations Fractions
110862A	MA_03_3	TIER 1	MC	2	0.60	0.22	Operations and Algebraic Thinking
110959A	MA_03_3	TIER 1	MC	3	0.68	0.13	Measurement and Data
111424A	MA_03_3	TIER 1	MC	4	0.75	0.18	Operations and Algebraic Thinking
111416A	MA_03_3	TIER 2	MC	5	0.63	0.22	Operations and Algebraic Thinking
111420A	MA_03_3	TIER 2	MC	6	0.39	0.26	Number and Operations Base Ten
112570A	MA_03_3	TIER 3	MC	7	0.43	0.07	Operations and Algebraic Thinking
110923A	MA_03_3	TIER 2	MC	8	0.72	0.32	Operations and Algebraic Thinking
111422A	MA_03_3	TIER 4	MC	9	0.41	0.09	Number and Operations Base Ten
111391A	MA_03_3	TIER 3	MC	10	0.52	0.25	Measurement and Data
110974A	MA_03_3	TIER 2	MC	11	0.42	0.32	Number and Operations Base Ten
111377A	MA_03_3	TIER 2	MC	12	0.59	0.21	Geometry
111411A	MA_03_3	TIER 3	MC	13	0.45	0.11	Number and Operations Fractions
111386A	MA_03_3	TIER 2	MC	14	0.49	0.19	Measurement and Data
112616B	MA_03_3	TIER 3	MC	15	0.32	0.14	Number and Operations Fractions
120682A	MA_03_3	TIER 4	MC	16	0.58	0.31	Geometry
112601A	MA_03_3	TIER 3	MC	17	0.46	0.37	Operations and Algebraic Thinking
111397A	MA_03_3	TIER 3	MC	18	0.54	0.16	Number and Operations Base Ten
112565A	MA_03_3	TIER 2	MC	19	0.33	0.24	Number and Operations Fractions
122091A	MA_03_3	TIER 3	CR - 1pt	20	0.44	0.37	Measurement and Data
112614A	MA_03_3	TIER 1	MC	22	0.74	0.35	Measurement and Data
112544A	MA_03_3	TIER 1	MC	23	0.66	0.34	Geometry
112569A	MA_03_3	TIER 1	MC	24	0.57	0.28	Geometry
111013A	MA_03_3	TIER 3	MC	25	0.46	0.20	Measurement and Data
111415A	MA_03_3	TIER 3	MC	26	0.48	0.34	Measurement and Data
110965A	MA_03_3	TIER 2	MC	27	0.32	0.30	Number and Operations Base Ten
111426A	MA_03_3	TIER 3	MC	28	0.40	0.47	Number and Operations Base Ten
111427A	MA_03_3	TIER 4	MC	29	0.28	0.23	Number and Operations Fractions
111406A	MA_03_3	TIER 2	MC	32	0.29	0.39	Number and Operations Base Ten
111378A	MA_03_3	TIER 3	MC	33	0.61	0.28	Operations and Algebraic Thinking
112595A	MA_03_3	TIER 2	MC	34	0.47	0.51	Operations and Algebraic Thinking
111388A	MA_03_3	TIER 4	MC	36	0.28	0.30	Operations and Algebraic Thinking
110873A	MA_03_3	TIER 3	MC	37	0.26	0.40	Operations and Algebraic Thinking
110975A	MA_03_3	TIER 3	MC	39	0.52	0.31	Number and Operations Fractions
122106A	MA_03_3	TIER 2	CR - 1pt	40	0.42	0.55	Number and Operations Fractions

Test Map for Core Items on Grade 3 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111434A	MA_03_4	TIER 1	MC	1	0.78	0.22	Number and Operations Fractions
110862A	MA_03_4	TIER 1	MC	2	0.60	0.25	Operations and Algebraic Thinking
110959A	MA_03_4	TIER 1	MC	3	0.68	0.13	Measurement and Data
111424A	MA_03_4	TIER 1	MC	4	0.75	0.26	Operations and Algebraic Thinking
111416A	MA_03_4	TIER 2	MC	5	0.63	0.20	Operations and Algebraic Thinking
111420A	MA_03_4	TIER 2	MC	6	0.39	0.30	Number and Operations Base Ten
112570A	MA_03_4	TIER 3	MC	7	0.43	0.07	Operations and Algebraic Thinking
110923A	MA_03_4	TIER 2	MC	8	0.72	0.36	Operations and Algebraic Thinking
111422A	MA_03_4	TIER 4	MC	9	0.41	0.16	Number and Operations Base Ten
111391A	MA_03_4	TIER 3	MC	10	0.52	0.17	Measurement and Data
110974A	MA_03_4	TIER 2	MC	11	0.42	0.34	Number and Operations Base Ten
111377A	MA_03_4	TIER 2	MC	12	0.59	0.26	Geometry
111411A	MA_03_4	TIER 3	MC	13	0.45	0.10	Number and Operations Fractions
111386A	MA_03_4	TIER 2	MC	14	0.49	0.28	Measurement and Data
112616B	MA_03_4	TIER 3	MC	15	0.32	0.14	Number and Operations Fractions
120682A	MA_03_4	TIER 4	MC	16	0.58	0.33	Geometry
112601A	MA_03_4	TIER 3	MC	17	0.46	0.38	Operations and Algebraic Thinking
111397A	MA_03_4	TIER 3	MC	18	0.54	0.27	Number and Operations Base Ten
112565A	MA_03_4	TIER 2	MC	19	0.33	0.13	Number and Operations Fractions
122091A	MA_03_4	TIER 3	CR - 1pt	20	0.44	0.41	Measurement and Data
112559A	MA_03_4	TIER 1	MC	21	0.55	0.13	Number and Operations Base Ten
111429A	MA_03_4	TIER 1	MC	22	0.63	0.35	Operations and Algebraic Thinking
112551A	MA_03_4	TIER 1	MC	23	0.65	0.21	Measurement and Data
110919A	MA_03_4	TIER 2	MC	25	0.48	0.48	Operations and Algebraic Thinking
110966A	MA_03_4	TIER 3	MC	26	0.61	0.30	Number and Operations Base Ten
110928B	MA_03_4	TIER 3	MC	27	0.36	0.31	Operations and Algebraic Thinking
110920A	MA_03_4	TIER 4	MC	29	0.25	0.39	Operations and Algebraic Thinking
122089A	MA_03_4	TIER 3	CR - 1pt	30	0.51	0.54	Number and Operations Fractions
111381A	MA_03_4	TIER 2	MC	32	0.65	0.32	Geometry
110934B	MA_03_4	TIER 2	MC	34	0.44	0.13	Number and Operations Fractions
110871A	MA_03_4	TIER 2	MC	35	0.43	0.25	Measurement and Data
110844A	MA_03_4	TIER 3	MC	36	0.56	0.44	Geometry
112618A	MA_03_4	TIER 4	MC	37	0.40	0.21	Number and Operations Fractions
111650A	MA_03_4	TIER 2	MC	39	0.63	0.50	Operations and Algebraic Thinking
122104A	MA_03_4	TIER 2	CR - 1pt	40	0.61	0.43	Measurement and Data

Test Map for Core Items on Grade 4 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111667A	MA_04_1	TIER 1	MC	1	0.79	0.07	Geometry
111160A	MA_04_1	TIER 1	MC	2	0.56	0.18	Operations and Algebraic Thinking
111695B	MA_04_1	TIER 1	MC	3	0.71	0.10	Number and Operations Fractions
111663A	MA_04_1	TIER 1	MC	4	0.78	0.26	Measurement and Data
112794B	MA_04_1	TIER 2	MC	5	0.38	0.05	Number and Operations Fractions
112813A	MA_04_1	TIER 3	MC	6	0.27	0.12	Operations and Algebraic Thinking
112797B	MA_04_1	TIER 2	MC	7	0.40	0.00	Number and Operations Fractions
111717A	MA_04_1	TIER 3	MC	8	0.55	0.18	Operations and Algebraic Thinking
111676A	MA_04_1	TIER 2	MC	9	0.42	0.30	Measurement and Data
112807A	MA_04_1	TIER 2	MC	10	0.43	0.09	Operations and Algebraic Thinking
111712B	MA_04_1	TIER 3	MC	11	0.41	0.11	Number and Operations Fractions
121658A	MA_04_1	TIER 4	MC	12	0.40	0.17	Operations and Algebraic Thinking
112832B	MA_04_1	TIER 2	MC	13	0.35	0.14	Number and Operations Fractions
111682A	MA_04_1	TIER 3	MC	14	0.44	0.28	Measurement and Data
111687A	MA_04_1	TIER 2	MC	15	0.50	0.05	Number and Operations Base Ten
112839B	MA_04_1	TIER 4	MC	16	0.33	0.12	Number and Operations Fractions
111166A	MA_04_1	TIER 2	MC	17	0.46	0.16	Operations and Algebraic Thinking
122426A	MA_04_1	TIER 3	CR - 1pt	18	0.24	0.16	Measurement and Data
111686A	MA_04_1	TIER 3	MC	19	0.41	0.13	Number and Operations Base Ten
122267A	MA_04_1	TIER 3	CR - 1pt	20	0.50	0.22	Geometry
111710B	MA_04_1	TIER 1	MC	21	0.50	0.17	Number and Operations Fractions
111135A	MA_04_1	TIER 1	MC	23	0.58	0.22	Number and Operations Base Ten
111178B	MA_04_1	TIER 1	MC	24	0.56	0.13	Number and Operations Fractions
111716A	MA_04_1	TIER 2	MC	25	0.49	0.48	Operations and Algebraic Thinking
122394A	MA_04_1	TIER 2	CR - 1pt	26	0.30	0.45	Measurement and Data
121691B	MA_04_1	TIER 3	MC	27	0.33	0.25	Number and Operations Fractions
122265A	MA_04_1	TIER 4	CR - 1pt	28	0.19	0.23	Geometry
112782A	MA_04_1	TIER 2	MC	29	0.42	0.47	Measurement and Data
121661A	MA_04_1	TIER 3	MC	30	0.36	0.24	Operations and Algebraic Thinking
112803B	MA_04_1	TIER 3	MC	32	0.58	0.48	Operations and Algebraic Thinking
111688A	MA_04_1	TIER 4	MC	33	0.49	0.37	Number and Operations Base Ten
111677A	MA_04_1	TIER 3	MC	36	0.45	0.46	Measurement and Data
111721A	MA_04_1	TIER 2	MC	37	0.37	0.35	Operations and Algebraic Thinking
111731B	MA_04_1	TIER 3	MC	39	0.49	0.44	Number and Operations Fractions
120697A	MA_04_1	TIER 2	CR - 1pt	40	0.63	0.31	Geometry

Test Map for Core Items on Grade 4 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111667A	MA_04_2	TIER 1	MC	1	0.79	0.17	Geometry
111160A	MA_04_2	TIER 1	MC	2	0.56	0.13	Operations and Algebraic Thinking
111695B	MA_04_2	TIER 1	MC	3	0.71	0.20	Number and Operations Fractions
111663A	MA_04_2	TIER 1	MC	4	0.78	0.11	Measurement and Data
112794B	MA_04_2	TIER 2	MC	5	0.38	-0.07	Number and Operations Fractions
112813A	MA_04_2	TIER 3	MC	6	0.27	0.15	Operations and Algebraic Thinking
112797B	MA_04_2	TIER 2	MC	7	0.40	-0.01	Number and Operations Fractions
111717A	MA_04_2	TIER 3	MC	8	0.55	0.18	Operations and Algebraic Thinking
111676A	MA_04_2	TIER 2	MC	9	0.42	0.24	Measurement and Data
112807A	MA_04_2	TIER 2	MC	10	0.43	0.12	Operations and Algebraic Thinking
111712B	MA_04_2	TIER 3	MC	11	0.41	0.17	Number and Operations Fractions
121658A	MA_04_2	TIER 4	MC	12	0.40	0.14	Operations and Algebraic Thinking
112832B	MA_04_2	TIER 2	MC	13	0.35	0.13	Number and Operations Fractions
111682A	MA_04_2	TIER 3	MC	14	0.44	0.20	Measurement and Data
111687A	MA_04_2	TIER 2	MC	15	0.50	0.07	Number and Operations Base Ten
112839B	MA_04_2	TIER 4	MC	16	0.33	0.07	Number and Operations Fractions
111166A	MA_04_2	TIER 2	MC	17	0.46	0.27	Operations and Algebraic Thinking
122426A	MA_04_2	TIER 3	CR - 1pt	18	0.24	0.20	Measurement and Data
111686A	MA_04_2	TIER 3	MC	19	0.41	0.16	Number and Operations Base Ten
122267A	MA_04_2	TIER 3	CR - 1pt	20	0.50	0.32	Geometry
111728B	MA_04_2	TIER 1	MC	21	0.68	0.39	Number and Operations Fractions
111685A	MA_04_2	TIER 1	MC	23	0.61	0.12	Number and Operations Base Ten
111680A	MA_04_2	TIER 1	MC	24	0.75	0.19	Measurement and Data
111136A	MA_04_2	TIER 2	MC	25	0.51	0.44	Number and Operations Base Ten
111124A	MA_04_2	TIER 3	MC	26	0.48	0.48	Measurement and Data
121692B	MA_04_2	TIER 3	MC	28	0.30	0.02	Number and Operations Fractions
111711B	MA_04_2	TIER 2	MC	30	0.40	0.10	Number and Operations Fractions
121663A	MA_04_2	TIER 3	MC	31	0.47	0.22	Operations and Algebraic Thinking
122161A	MA_04_2	TIER 3	CR - 1pt	32	0.60	0.54	Geometry
112817A	MA_04_2	TIER 2	MC	33	0.27	-0.07	Operations and Algebraic Thinking
122432A	MA_04_2	TIER 2	CR - 1pt	35	0.16	0.35	Measurement and Data
111718A	MA_04_2	TIER 4	MC	36	0.39	-0.22	Operations and Algebraic Thinking
111162A	MA_04_2	TIER 3	MC	38	0.42	0.21	Operations and Algebraic Thinking
111707B	MA_04_2	TIER 3	MC	39	0.42	-0.02	Number and Operations Fractions
121737A	MA_04_2	TIER 2	CR - 1pt	40	0.52	0.37	Geometry

Test Map for Core Items on Grade 4 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111667A	MA_04_3	TIER 1	MC	1	0.79	0.15	Geometry
111160A	MA_04_3	TIER 1	MC	2	0.56	0.14	Operations and Algebraic Thinking
111695B	MA_04_3	TIER 1	MC	3	0.71	0.15	Number and Operations Fractions
111663A	MA_04_3	TIER 1	MC	4	0.78	0.19	Measurement and Data
112794B	MA_04_3	TIER 2	MC	5	0.38	0.00	Number and Operations Fractions
112813A	MA_04_3	TIER 3	MC	6	0.27	0.12	Operations and Algebraic Thinking
112797B	MA_04_3	TIER 2	MC	7	0.40	-0.08	Number and Operations Fractions
111717A	MA_04_3	TIER 3	MC	8	0.55	0.17	Operations and Algebraic Thinking
111676A	MA_04_3	TIER 2	MC	9	0.42	0.24	Measurement and Data
112807A	MA_04_3	TIER 2	MC	10	0.43	0.09	Operations and Algebraic Thinking
111712B	MA_04_3	TIER 3	MC	11	0.41	0.16	Number and Operations Fractions
121658A	MA_04_3	TIER 4	MC	12	0.40	0.11	Operations and Algebraic Thinking
112832B	MA_04_3	TIER 2	MC	13	0.35	0.10	Number and Operations Fractions
111682A	MA_04_3	TIER 3	MC	14	0.44	0.26	Measurement and Data
111687A	MA_04_3	TIER 2	MC	15	0.50	0.04	Number and Operations Base Ten
112839B	MA_04_3	TIER 4	MC	16	0.33	0.06	Number and Operations Fractions
111166A	MA_04_3	TIER 2	MC	17	0.46	0.26	Operations and Algebraic Thinking
122426A	MA_04_3	TIER 3	CR - 1pt	18	0.24	0.21	Measurement and Data
111686A	MA_04_3	TIER 3	MC	19	0.41	0.12	Number and Operations Base Ten
122267A	MA_04_3	TIER 3	CR - 1pt	20	0.50	0.26	Geometry
111658A	MA_04_3	TIER 1	MC	22	0.80	0.28	Measurement and Data
111715A	MA_04_3	TIER 1	MC	23	0.80	0.04	Operations and Algebraic Thinking
111705B	MA_04_3	TIER 1	MC	24	0.36	0.21	Number and Operations Fractions
112812B	MA_04_3	TIER 2	MC	25	0.30	0.14	Operations and Algebraic Thinking
122370A	MA_04_3	TIER 2	CR - 1pt	27	0.34	0.43	Measurement and Data
111137A	MA_04_3	TIER 3	MC	28	0.38	0.12	Number and Operations Base Ten
111678A	MA_04_3	TIER 4	MC	29	0.48	0.32	Measurement and Data
111123A	MA_04_3	TIER 2	MC	32	0.58	0.42	Measurement and Data
121740A	MA_04_3	TIER 2	CR - 1pt	34	0.64	0.36	Geometry
111185B	MA_04_3	TIER 3	MC	35	0.35	0.00	Number and Operations Fractions
111727A	MA_04_3	TIER 2	MC	36	0.43	0.32	Operations and Algebraic Thinking
120699B	MA_04_3	TIER 3	MC	37	0.36	0.08	Number and Operations Fractions
112788A	MA_04_3	TIER 2	MC	38	0.41	0.12	Number and Operations Base Ten
121659A	MA_04_3	TIER 3	MC	39	0.46	0.06	Operations and Algebraic Thinking
122153A	MA_04_3	TIER 3	CR - 1pt	40	0.48	0.48	Geometry

Test Map for Core Items on Grade 4 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111667A	MA_04_4	TIER 1	MC	1	0.79	0.11	Geometry
111160A	MA_04_4	TIER 1	MC	2	0.56	0.09	Operations and Algebraic Thinking
111695B	MA_04_4	TIER 1	MC	3	0.71	0.16	Number and Operations Fractions
111663A	MA_04_4	TIER 1	MC	4	0.78	0.15	Measurement and Data
112794B	MA_04_4	TIER 2	MC	5	0.38	-0.06	Number and Operations Fractions
112813A	MA_04_4	TIER 3	MC	6	0.27	0.17	Operations and Algebraic Thinking
112797B	MA_04_4	TIER 2	MC	7	0.40	-0.02	Number and Operations Fractions
111717A	MA_04_4	TIER 3	MC	8	0.55	0.17	Operations and Algebraic Thinking
111676A	MA_04_4	TIER 2	MC	9	0.42	0.24	Measurement and Data
112807A	MA_04_4	TIER 2	MC	10	0.43	0.14	Operations and Algebraic Thinking
111712B	MA_04_4	TIER 3	MC	11	0.41	0.12	Number and Operations Fractions
121658A	MA_04_4	TIER 4	MC	12	0.40	0.13	Operations and Algebraic Thinking
112832B	MA_04_4	TIER 2	MC	13	0.35	0.13	Number and Operations Fractions
111682A	MA_04_4	TIER 3	MC	14	0.44	0.25	Measurement and Data
111687A	MA_04_4	TIER 2	MC	15	0.50	0.04	Number and Operations Base Ten
112839B	MA_04_4	TIER 4	MC	16	0.33	0.09	Number and Operations Fractions
111166A	MA_04_4	TIER 2	MC	17	0.46	0.19	Operations and Algebraic Thinking
122426A	MA_04_4	TIER 3	CR - 1pt	18	0.24	0.15	Measurement and Data
111686A	MA_04_4	TIER 3	MC	19	0.41	0.10	Number and Operations Base Ten
122267A	MA_04_4	TIER 3	CR - 1pt	20	0.50	0.22	Geometry
111672A	MA_04_4	TIER 1	MC	21	0.72	0.26	Geometry
111122A	MA_04_4	TIER 1	MC	23	0.63	0.21	Measurement and Data
112801A	MA_04_4	TIER 1	MC	24	0.68	0.16	Operations and Algebraic Thinking
111706B	MA_04_4	TIER 2	MC	25	0.37	0.06	Number and Operations Fractions
121665A	MA_04_4	TIER 3	MC	26	0.38	0.10	Operations and Algebraic Thinking
122396A	MA_04_4	TIER 2	CR - 1pt	27	0.18	0.33	Measurement and Data
111713B	MA_04_4	TIER 4	MC	28	0.29	-0.06	Number and Operations Fractions
112783B	MA_04_4	TIER 3	MC	30	0.46	0.24	Measurement and Data
112787A	MA_04_4	TIER 3	MC	32	0.36	0.23	Number and Operations Base Ten
121750A	MA_04_4	TIER 2	CR - 1pt	33	0.62	0.52	Geometry
112833B	MA_04_4	TIER 3	MC	34	0.34	0.17	Number and Operations Fractions
112819A	MA_04_4	TIER 4	MC	35	0.40	-0.13	Operations and Algebraic Thinking
111692A	MA_04_4	TIER 2	MC	36	0.34	0.14	Number and Operations Base Ten
112808B	MA_04_4	TIER 3	MC	37	0.41	0.03	Operations and Algebraic Thinking
120551B	MA_04_4	TIER 3	MC	38	0.27	-0.02	Number and Operations Fractions

Test Map for Core Items on Grade 5 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113844A	MA_05_1	TIER 1	MC	1	0.80	0.15	Measurement and Data
111291A	MA_05_1	TIER 1	MC	2	0.74	0.13	Number and Operations Base Ten
112340A	MA_05_1	TIER 1	MC	3	0.68	0.14	Geometry
113889A	MA_05_1	TIER 1	MC	4	0.64	0.07	Number and Operations Fractions
112416A	MA_05_1	TIER 2	MC	5	0.49	0.10	Operations and Algebraic Thinking
111244B	MA_05_1	TIER 3	MC	6	0.43	0.19	Number and Operations Base Ten
112363A	MA_05_1	TIER 2	MC	7	0.37	0.13	Measurement and Data
112373B	MA_05_1	TIER 2	MC	8	0.51	0.12	Number and Operations Base Ten
113901A	MA_05_1	TIER 4	MC	9	0.29	-0.02	Operations and Algebraic Thinking
113838A	MA_05_1	TIER 2	MC	10	0.44	0.03	Measurement and Data
112385A	MA_05_1	TIER 3	MC	11	0.42	0.11	Number and Operations Base Ten
111234A	MA_05_1	TIER 3	MC	12	0.57	0.08	Measurement and Data
113868A	MA_05_1	TIER 2	MC	13	0.35	0.06	Number and Operations Base Ten
112409A	MA_05_1	TIER 3	MC	14	0.32	0.15	Number and Operations Fractions
111260A	MA_05_1	TIER 4	MC	15	0.51	0.08	Number and Operations Base Ten
111303A	MA_05_1	TIER 2	MC	16	0.53	0.09	Number and Operations Base Ten
113877A	MA_05_1	TIER 3	MC	17	0.29	-0.07	Number and Operations Fractions
113862A	MA_05_1	TIER 3	MC	18	0.31	0.08	Number and Operations Base Ten
113883A	MA_05_1	TIER 2	MC	19	0.48	0.20	Number and Operations Fractions
120737A	MA_05_1	TIER 3	CR - 1pt	20	0.27	0.20	Geometry
112372A	MA_05_1	TIER 1	MC	22	0.80	0.26	Number and Operations Base Ten
112346A	MA_05_1	TIER 1	MC	23	0.70	0.11	Measurement and Data
112396A	MA_05_1	TIER 1	MC	24	0.60	0.10	Number and Operations Base Ten
112378A	MA_05_1	TIER 2	MC	25	0.49	0.20	Number and Operations Base Ten
113843B	MA_05_1	TIER 2	MC	26	0.41	0.19	Measurement and Data
113852A	MA_05_1	TIER 3	MC	27	0.44	0.23	Number and Operations Base Ten
113846B	MA_05_1	TIER 4	MC	28	0.52	0.10	Number and Operations Base Ten
111276A	MA_05_1	TIER 2	MC	30	0.50	0.25	Number and Operations Fractions
111239B	MA_05_1	TIER 3	MC	31	0.35	0.02	Measurement and Data
111337A	MA_05_1	TIER 2	MC	32	0.41	0.09	Geometry
113892A	MA_05_1	TIER 3	MC	33	0.51	0.14	Number and Operations Fractions
111263A	MA_05_1	TIER 2	MC	34	0.39	0.00	Number and Operations Fractions
111304A	MA_05_1	TIER 3	MC	35	0.32	-0.02	Number and Operations Base Ten
121514A	MA_05_1	TIER 4	CR - 1pt	39	0.28	0.24	Geometry
113898B	MA_05_1	TIER 3	MC	40	0.39	0.05	Operations and Algebraic Thinking

Test Map for Core Items on Grade 5 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113844A	MA_05_2	TIER 1	MC	1	0.80	0.22	Measurement and Data
111291A	MA_05_2	TIER 1	MC	2	0.74	0.19	Number and Operations Base Ten
112340A	MA_05_2	TIER 1	MC	3	0.68	0.12	Geometry
113889A	MA_05_2	TIER 1	MC	4	0.64	0.07	Number and Operations Fractions
112416A	MA_05_2	TIER 2	MC	5	0.49	0.10	Operations and Algebraic Thinking
111244B	MA_05_2	TIER 3	MC	6	0.43	0.22	Number and Operations Base Ten
112363A	MA_05_2	TIER 2	MC	7	0.37	0.14	Measurement and Data
112373B	MA_05_2	TIER 2	MC	8	0.51	0.14	Number and Operations Base Ten
113901A	MA_05_2	TIER 4	MC	9	0.29	0.11	Operations and Algebraic Thinking
113838A	MA_05_2	TIER 2	MC	10	0.44	0.14	Measurement and Data
112385A	MA_05_2	TIER 3	MC	11	0.42	0.18	Number and Operations Base Ten
111234A	MA_05_2	TIER 3	MC	12	0.57	0.21	Measurement and Data
113868A	MA_05_2	TIER 2	MC	13	0.35	0.07	Number and Operations Base Ten
112409A	MA_05_2	TIER 3	MC	14	0.32	0.23	Number and Operations Fractions
111260A	MA_05_2	TIER 4	MC	15	0.51	0.10	Number and Operations Base Ten
111303A	MA_05_2	TIER 2	MC	16	0.53	0.19	Number and Operations Base Ten
113877A	MA_05_2	TIER 3	MC	17	0.29	-0.06	Number and Operations Fractions
113862A	MA_05_2	TIER 3	MC	18	0.31	0.09	Number and Operations Base Ten
113883A	MA_05_2	TIER 2	MC	19	0.48	0.09	Number and Operations Fractions
120737A	MA_05_2	TIER 3	CR - 1pt	20	0.27	0.17	Geometry
111242A	MA_05_2	TIER 1	MC	21	0.80	0.21	Number and Operations Base Ten
113899A	MA_05_2	TIER 1	MC	22	0.78	0.17	Operations and Algebraic Thinking
113884B	MA_05_2	TIER 1	MC	24	0.58	0.19	Number and Operations Fractions
111233A	MA_05_2	TIER 2	MC	25	0.57	0.16	Measurement and Data
111295A	MA_05_2	TIER 3	MC	26	0.37	0.40	Number and Operations Base Ten
112342A	MA_05_2	TIER 2	MC	27	0.47	0.27	Geometry
112364B	MA_05_2	TIER 3	MC	28	0.37	0.30	Measurement and Data
112384A	MA_05_2	TIER 2	MC	29	0.37	0.54	Number and Operations Base Ten
112410A	MA_05_2	TIER 4	MC	30	0.45	0.34	Number and Operations Fractions
113848B	MA_05_2	TIER 2	MC	31	0.57	0.27	Number and Operations Base Ten
112358A	MA_05_2	TIER 2	MC	33	0.27	0.38	Measurement and Data
113903A	MA_05_2	TIER 3	MC	34	0.35	0.22	Operations and Algebraic Thinking
113856A	MA_05_2	TIER 4	MC	37	0.32	0.23	Number and Operations Base Ten
113893A	MA_05_2	TIER 2	MC	38	0.54	0.32	Number and Operations Fractions
112398A	MA_05_2	TIER 3	MC	39	0.37	0.30	Number and Operations Base Ten

Test Map for Core Items on Grade 5 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113844A	MA_05_3	TIER 1	MC	1	0.80	0.21	Measurement and Data
111291A	MA_05_3	TIER 1	MC	2	0.74	0.19	Number and Operations Base Ten
112340A	MA_05_3	TIER 1	MC	3	0.68	0.14	Geometry
113889A	MA_05_3	TIER 1	MC	4	0.64	0.08	Number and Operations Fractions
112416A	MA_05_3	TIER 2	MC	5	0.49	0.15	Operations and Algebraic Thinking
111244B	MA_05_3	TIER 3	MC	6	0.43	0.28	Number and Operations Base Ten
112363A	MA_05_3	TIER 2	MC	7	0.37	0.12	Measurement and Data
112373B	MA_05_3	TIER 2	MC	8	0.51	0.14	Number and Operations Base Ten
113901A	MA_05_3	TIER 4	MC	9	0.29	0.15	Operations and Algebraic Thinking
113838A	MA_05_3	TIER 2	MC	10	0.44	0.12	Measurement and Data
112385A	MA_05_3	TIER 3	MC	11	0.42	0.19	Number and Operations Base Ten
111234A	MA_05_3	TIER 3	MC	12	0.57	0.11	Measurement and Data
113868A	MA_05_3	TIER 2	MC	13	0.35	0.02	Number and Operations Base Ten
112409A	MA_05_3	TIER 3	MC	14	0.32	0.15	Number and Operations Fractions
111260A	MA_05_3	TIER 4	MC	15	0.51	0.08	Number and Operations Base Ten
111303A	MA_05_3	TIER 2	MC	16	0.53	0.16	Number and Operations Base Ten
113877A	MA_05_3	TIER 3	MC	17	0.29	-0.09	Number and Operations Fractions
113862A	MA_05_3	TIER 3	MC	18	0.31	0.07	Number and Operations Base Ten
113883A	MA_05_3	TIER 2	MC	19	0.48	0.14	Number and Operations Fractions
120737A	MA_05_3	TIER 3	CR - 1pt	20	0.27	0.15	Geometry
111302A	MA_05_3	TIER 1	MC	21	0.80	0.19	Number and Operations Base Ten
112352A	MA_05_3	TIER 1	MC	23	0.44	0.01	Measurement and Data
111275A	MA_05_3	TIER 1	MC	24	0.57	0.26	Number and Operations Fractions
112359B	MA_05_3	TIER 3	MC	26	0.30	0.17	Measurement and Data
111228A	MA_05_3	TIER 2	MC	27	0.44	0.30	Geometry
112374B	MA_05_3	TIER 3	MC	28	0.45	0.20	Number and Operations Base Ten
113853A	MA_05_3	TIER 2	MC	29	0.52	0.42	Number and Operations Base Ten
112365A	MA_05_3	TIER 4	MC	30	0.40	0.12	Measurement and Data
112368B	MA_05_3	TIER 2	MC	31	0.53	0.26	Number and Operations Base Ten
111299A	MA_05_3	TIER 3	MC	32	0.31	0.04	Operations and Algebraic Thinking
112408A	MA_05_3	TIER 2	MC	35	0.34	0.29	Number and Operations Fractions
111259A	MA_05_3	TIER 3	MC	36	0.23	-0.02	Number and Operations Base Ten
113878A	MA_05_3	TIER 2	MC	37	0.49	0.14	Number and Operations Fractions
112397A	MA_05_3	TIER 2	MC	39	0.39	-0.09	Number and Operations Base Ten
120739A	MA_05_3	TIER 3	CR - 1pt	40	0.21	0.35	Geometry

Test Map for Core Items on Grade 5 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113844A	MA_05_4	TIER 1	MC	1	0.80	0.20	Measurement and Data
111291A	MA_05_4	TIER 1	MC	2	0.74	0.15	Number and Operations Base Ten
112340A	MA_05_4	TIER 1	MC	3	0.68	0.12	Geometry
113889A	MA_05_4	TIER 1	MC	4	0.64	0.13	Number and Operations Fractions
112416A	MA_05_4	TIER 2	MC	5	0.49	0.13	Operations and Algebraic Thinking
111244B	MA_05_4	TIER 3	MC	6	0.43	0.23	Number and Operations Base Ten
112363A	MA_05_4	TIER 2	MC	7	0.37	0.15	Measurement and Data
112373B	MA_05_4	TIER 2	MC	8	0.51	0.09	Number and Operations Base Ten
113901A	MA_05_4	TIER 4	MC	9	0.29	0.10	Operations and Algebraic Thinking
113838A	MA_05_4	TIER 2	MC	10	0.44	0.06	Measurement and Data
112385A	MA_05_4	TIER 3	MC	11	0.42	0.09	Number and Operations Base Ten
111234A	MA_05_4	TIER 3	MC	12	0.57	0.18	Measurement and Data
113868A	MA_05_4	TIER 2	MC	13	0.35	0.07	Number and Operations Base Ten
112409A	MA_05_4	TIER 3	MC	14	0.32	0.16	Number and Operations Fractions
111260A	MA_05_4	TIER 4	MC	15	0.51	0.14	Number and Operations Base Ten
111303A	MA_05_4	TIER 2	MC	16	0.53	0.20	Number and Operations Base Ten
113877A	MA_05_4	TIER 3	MC	17	0.29	-0.13	Number and Operations Fractions
113862A	MA_05_4	TIER 3	MC	18	0.31	0.11	Number and Operations Base Ten
113883A	MA_05_4	TIER 2	MC	19	0.48	0.12	Number and Operations Fractions
120737A	MA_05_4	TIER 3	CR - 1pt	20	0.27	0.26	Geometry
112362A	MA_05_4	TIER 1	MC	21	0.78	0.36	Measurement and Data
113859A	MA_05_4	TIER 1	MC	23	0.74	0.41	Number and Operations Base Ten
111262B	MA_05_4	TIER 1	MC	24	0.67	0.15	Number and Operations Fractions
112348A	MA_05_4	TIER 2	MC	25	0.47	0.30	Measurement and Data
112369B	MA_05_4	TIER 3	MC	26	0.45	0.35	Number and Operations Base Ten
111294A	MA_05_4	TIER 2	MC	27	0.40	0.31	Number and Operations Base Ten
112386A	MA_05_4	TIER 4	MC	29	0.37	0.33	Number and Operations Base Ten
111243B	MA_05_4	TIER 2	MC	30	0.53	0.36	Number and Operations Base Ten
113842B	MA_05_4	TIER 3	MC	31	0.35	0.17	Measurement and Data
113833A	MA_05_4	TIER 2	MC	32	0.37	0.04	Geometry
112415A	MA_05_4	TIER 3	MC	33	0.37	0.09	Operations and Algebraic Thinking
113836A	MA_05_4	TIER 4	MC	34	0.29	-0.10	Measurement and Data
113888A	MA_05_4	TIER 2	MC	38	0.54	0.15	Number and Operations Fractions
113872B	MA_05_4	TIER 3	MC	39	0.29	0.34	Number and Operations Base Ten
111277A	MA_05_4	TIER 3	MC	40	0.42	0.27	Number and Operations Fractions

Test Map for Core Items on Grade 6 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111496A	MA_06_1	TIER 1	MC	1	0.72	0.10	Ratio and Proportions
111487A	MA_06_1	TIER 1	MC	2	0.55	0.13	The Number System
110909A	MA_06_1	TIER 1	MC	3	0.72	0.10	Expressions and Equations
112676A	MA_06_1	TIER 1	MC	4	0.66	0.15	The Number System
111461A	MA_06_1	TIER 2	MC	5	0.47	0.08	Ratio and Proportions
111518A	MA_06_1	TIER 3	MC	6	0.50	0.16	Expressions and Equations
110996A	MA_06_1	TIER 2	MC	7	0.43	0.24	Statistics and Probability
112658A	MA_06_1	TIER 3	MC	8	0.48	0.18	Ratio and Proportions
111478A	MA_06_1	TIER 2	MC	9	0.60	0.22	The Number System
111457A	MA_06_1	TIER 4	MC	10	0.32	0.16	Geometry
111514A	MA_06_1	TIER 2	MC	11	0.54	0.22	Ratio and Proportions
110910A	MA_06_1	TIER 3	MC	12	0.44	0.13	Statistics and Probability
111507A	MA_06_1	TIER 2	MC	13	0.49	0.20	The Number System
111632A	MA_06_1	TIER 3	MC	14	0.35	-0.01	Expressions and Equations
110943A	MA_06_1	TIER 4	MC	15	0.30	0.07	Ratio and Proportions
110938A	MA_06_1	TIER 2	MC	16	0.44	0.16	Geometry
110978A	MA_06_1	TIER 3	MC	17	0.44	0.15	The Number System
112667A	MA_06_1	TIER 2	MC	18	0.27	0.03	Expressions and Equations
112645A	MA_06_1	TIER 3	MC	19	0.44	0.22	The Number System
120855A	MA_06_1	TIER 3	MC	20	0.51	0.22	Ratio and Proportions
110891A	MA_06_1	TIER 1	MC	21	0.71	0.26	Ratio and Proportions
111450A	MA_06_1	TIER 1	MC	22	0.74	0.41	Geometry
111444A	MA_06_1	TIER 1	MC	24	0.74	0.37	Statistics and Probability
112654A	MA_06_1	TIER 3	MC	26	0.56	0.32	Ratio and Proportions
111492A	MA_06_1	TIER 2	MC	27	0.54	0.16	The Number System
112698A	MA_06_1	TIER 3	MC	28	0.46	0.19	Expressions and Equations
121520A	MA_06_1	TIER 4	MC	29	0.31	0.07	The Number System
112657A	MA_06_1	TIER 2	MC	30	0.63	0.47	Ratio and Proportions
111503A	MA_06_1	TIER 3	MC	31	0.46	0.04	Expressions and Equations
111482A	MA_06_1	TIER 2	MC	34	0.68	0.46	The Number System
121487A	MA_06_1	TIER 3	MC	35	0.42	0.31	Ratio and Proportions
111517A	MA_06_1	TIER 2	MC	37	0.51	0.44	Expressions and Equations
111027A	MA_06_1	TIER 3	MC	38	0.32	0.17	Ratio and Proportions
110986A	MA_06_1	TIER 2	MC	39	0.49	0.42	The Number System
112678A	MA_06_1	TIER 3	MC	40	0.52	0.34	The Number System

Test Map for Core Items on Grade 6 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111496A	MA_06_2	TIER 1	MC	1	0.72	0.11	Ratio and Proportions
111487A	MA_06_2	TIER 1	MC	2	0.55	0.17	The Number System
110909A	MA_06_2	TIER 1	MC	3	0.72	0.07	Expressions and Equations
112676A	MA_06_2	TIER 1	MC	4	0.66	0.10	The Number System
111461A	MA_06_2	TIER 2	MC	5	0.47	0.05	Ratio and Proportions
111518A	MA_06_2	TIER 3	MC	6	0.50	0.18	Expressions and Equations
110996A	MA_06_2	TIER 2	MC	7	0.43	0.23	Statistics and Probability
112658A	MA_06_2	TIER 3	MC	8	0.48	0.29	Ratio and Proportions
111478A	MA_06_2	TIER 2	MC	9	0.60	0.21	The Number System
111457A	MA_06_2	TIER 4	MC	10	0.32	0.18	Geometry
111514A	MA_06_2	TIER 2	MC	11	0.54	0.20	Ratio and Proportions
110910A	MA_06_2	TIER 3	MC	12	0.44	0.19	Statistics and Probability
111507A	MA_06_2	TIER 2	MC	13	0.49	0.14	The Number System
111632A	MA_06_2	TIER 3	MC	14	0.35	-0.01	Expressions and Equations
110943A	MA_06_2	TIER 4	MC	15	0.30	0.09	Ratio and Proportions
110938A	MA_06_2	TIER 2	MC	16	0.44	0.13	Geometry
110978A	MA_06_2	TIER 3	MC	17	0.44	0.07	The Number System
112667A	MA_06_2	TIER 2	MC	18	0.27	-0.01	Expressions and Equations
112645A	MA_06_2	TIER 3	MC	19	0.44	0.20	The Number System
120855A	MA_06_2	TIER 3	MC	20	0.51	0.31	Ratio and Proportions
112632A	MA_06_2	TIER 1	MC	21	0.84	0.27	Geometry
111464A	MA_06_2	TIER 1	MC	23	0.66	0.32	Ratio and Proportions
110903A	MA_06_2	TIER 1	MC	24	0.67	0.25	Statistics and Probability
112644A	MA_06_2	TIER 2	MC	25	0.73	0.27	The Number System
110981A	MA_06_2	TIER 3	MC	26	0.47	0.39	Ratio and Proportions
112699A	MA_06_2	TIER 4	MC	29	0.42	0.49	Expressions and Equations
112653A	MA_06_2	TIER 2	MC	30	0.55	0.41	Ratio and Proportions
112663A	MA_06_2	TIER 3	MC	33	0.43	0.34	Expressions and Equations
120854A	MA_06_2	TIER 4	MC	34	0.54	0.40	Ratio and Proportions
111035A	MA_06_2	TIER 2	MC	35	0.49	0.32	The Number System
110939A	MA_06_2	TIER 3	MC	36	0.45	0.25	Geometry
110990A	MA_06_2	TIER 2	MC	37	0.62	0.44	Expressions and Equations
110942A	MA_06_2	TIER 3	MC	38	0.35	0.09	Ratio and Proportions
112672A	MA_06_2	TIER 2	MC	39	0.46	0.29	The Number System
110993A	MA_06_2	TIER 3	MC	40	0.44	0.13	The Number System

Test Map for Core Items on Grade 6 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111496A	MA_06_3	TIER 1	MC	1	0.72	0.09	Ratio and Proportions
111487A	MA_06_3	TIER 1	MC	2	0.55	0.15	The Number System
110909A	MA_06_3	TIER 1	MC	3	0.72	0.13	Expressions and Equations
112676A	MA_06_3	TIER 1	MC	4	0.66	0.10	The Number System
111461A	MA_06_3	TIER 2	MC	5	0.47	0.06	Ratio and Proportions
111518A	MA_06_3	TIER 3	MC	6	0.50	0.18	Expressions and Equations
110996A	MA_06_3	TIER 2	MC	7	0.43	0.19	Statistics and Probability
112658A	MA_06_3	TIER 3	MC	8	0.48	0.17	Ratio and Proportions
111478A	MA_06_3	TIER 2	MC	9	0.60	0.23	The Number System
111457A	MA_06_3	TIER 4	MC	10	0.32	0.16	Geometry
111514A	MA_06_3	TIER 2	MC	11	0.54	0.27	Ratio and Proportions
110910A	MA_06_3	TIER 3	MC	12	0.44	0.12	Statistics and Probability
111507A	MA_06_3	TIER 2	MC	13	0.49	0.23	The Number System
111632A	MA_06_3	TIER 3	MC	14	0.35	-0.03	Expressions and Equations
110943A	MA_06_3	TIER 4	MC	15	0.30	0.16	Ratio and Proportions
110938A	MA_06_3	TIER 2	MC	16	0.44	0.09	Geometry
110978A	MA_06_3	TIER 3	MC	17	0.44	0.13	The Number System
112667A	MA_06_3	TIER 2	MC	18	0.27	-0.03	Expressions and Equations
112645A	MA_06_3	TIER 3	MC	19	0.44	0.25	The Number System
120855A	MA_06_3	TIER 3	MC	20	0.51	0.23	Ratio and Proportions
110840A	MA_06_3	TIER 1	MC	23	0.67	0.28	Ratio and Proportions
110880A	MA_06_3	TIER 1	MC	24	0.67	0.30	The Number System
111036A	MA_06_3	TIER 3	MC	26	0.47	0.13	The Number System
110980A	MA_06_3	TIER 2	MC	27	0.58	0.28	Ratio and Proportions
111456A	MA_06_3	TIER 3	MC	28	0.46	0.46	Geometry
110985A	MA_06_3	TIER 4	MC	29	0.35	0.02	Expressions and Equations
110977A	MA_06_3	TIER 2	MC	30	0.46	0.38	The Number System
120494A	MA_06_3	TIER 3	MC	31	0.57	0.21	Ratio and Proportions
111445A	MA_06_3	TIER 2	MC	32	0.35	0.32	Statistics and Probability
112697A	MA_06_3	TIER 2	MC	34	0.56	0.51	Expressions and Equations
111466A	MA_06_3	TIER 3	MC	35	0.46	-0.12	Ratio and Proportions
111451A	MA_06_3	TIER 2	MC	36	0.42	0.36	Geometry
112673A	MA_06_3	TIER 3	MC	37	0.62	0.35	The Number System
112679A	MA_06_3	TIER 4	MC	38	0.54	0.55	The Number System
111025A	MA_06_3	TIER 2	MC	39	0.57	0.47	Ratio and Proportions

Test Map for Core Items on Grade 6 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111496A	MA_06_4	TIER 1	MC	1	0.72	0.12	Ratio and Proportions
111487A	MA_06_4	TIER 1	MC	2	0.55	0.12	The Number System
110909A	MA_06_4	TIER 1	MC	3	0.72	0.05	Expressions and Equations
112676A	MA_06_4	TIER 1	MC	4	0.66	0.13	The Number System
111461A	MA_06_4	TIER 2	MC	5	0.47	0.12	Ratio and Proportions
111518A	MA_06_4	TIER 3	MC	6	0.50	0.20	Expressions and Equations
110996A	MA_06_4	TIER 2	MC	7	0.43	0.22	Statistics and Probability
112658A	MA_06_4	TIER 3	MC	8	0.48	0.22	Ratio and Proportions
111478A	MA_06_4	TIER 2	MC	9	0.60	0.23	The Number System
111457A	MA_06_4	TIER 4	MC	10	0.32	0.22	Geometry
111514A	MA_06_4	TIER 2	MC	11	0.54	0.22	Ratio and Proportions
110910A	MA_06_4	TIER 3	MC	12	0.44	0.13	Statistics and Probability
111507A	MA_06_4	TIER 2	MC	13	0.49	0.17	The Number System
111632A	MA_06_4	TIER 3	MC	14	0.35	0.00	Expressions and Equations
110943A	MA_06_4	TIER 4	MC	15	0.30	0.11	Ratio and Proportions
110938A	MA_06_4	TIER 2	MC	16	0.44	0.13	Geometry
110978A	MA_06_4	TIER 3	MC	17	0.44	0.22	The Number System
112667A	MA_06_4	TIER 2	MC	18	0.27	0.02	Expressions and Equations
112645A	MA_06_4	TIER 3	MC	19	0.44	0.25	The Number System
120855A	MA_06_4	TIER 3	MC	20	0.51	0.21	Ratio and Proportions
111630A	MA_06_4	TIER 1	MC	22	0.67	0.47	Expressions and Equations
112671A	MA_06_4	TIER 1	MC	23	0.55	0.17	The Number System
112955A	MA_06_4	TIER 1	MC	24	0.68	0.30	Ratio and Proportions
111455A	MA_06_4	TIER 2	MC	25	0.40	0.33	Geometry
120497A	MA_06_4	TIER 3	MC	26	0.42	0.30	Ratio and Proportions
110944A	MA_06_4	TIER 2	MC	27	0.66	0.40	The Number System
111474A	MA_06_4	TIER 4	MC	30	0.68	0.40	The Number System
110887A	MA_06_4	TIER 2	MC	31	0.31	0.20	Statistics and Probability
111462A	MA_06_4	TIER 3	MC	32	0.22	-0.05	Ratio and Proportions
112692A	MA_06_4	TIER 2	MC	33	0.74	0.30	Expressions and Equations
111508A	MA_06_4	TIER 3	MC	34	0.63	0.35	The Number System
111488A	MA_06_4	TIER 2	MC	36	0.46	0.20	The Number System
111452A	MA_06_4	TIER 3	MC	37	0.42	0.35	Geometry
110991A	MA_06_4	TIER 3	MC	38	0.44	0.27	Expressions and Equations
111038A	MA_06_4	TIER 2	MC	39	0.59	0.24	Ratio and Proportions

Test Map for Core Items on Grade 7 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111748A	MA_07_1	TIER 1	MC	1	0.74	0.11	Geometry
111778A	MA_07_1	TIER 1	MC	2	0.81	0.21	Ratio and Proportions
111046A	MA_07_1	TIER 1	MC	3	0.87	0.12	Statistics and Probability
112889A	MA_07_1	TIER 1	MC	4	0.62	0.11	The Number System
111804A	MA_07_1	TIER 2	MC	5	0.46	0.17	Expressions and Equations
111769A	MA_07_1	TIER 2	MC	6	0.60	0.23	Ratio and Proportions
111761A	MA_07_1	TIER 3	MC	7	0.34	-0.04	Geometry
111080A	MA_07_1	TIER 2	MC	8	0.41	0.18	Ratio and Proportions
111735A	MA_07_1	TIER 3	MC	9	0.44	0.17	Statistics and Probability
111131A	MA_07_1	TIER 2	MC	10	0.38	0.12	Ratio and Proportions
111754B	MA_07_1	TIER 2	MC	11	0.46	0.21	Geometry
111765A	MA_07_1	TIER 3	MC	12	0.39	0.25	Ratio and Proportions
112886A	MA_07_1	TIER 2	MC	13	0.38	0.05	The Number System
112871A	MA_07_1	TIER 3	MC	14	0.49	0.04	Ratio and Proportions
111101A	MA_07_1	TIER 4	MC	15	0.50	0.11	Expressions and Equations
111749A	MA_07_1	TIER 2	MC	16	0.68	0.16	Geometry
111113A	MA_07_1	TIER 3	MC	17	0.38	0.29	The Number System
120525A	MA_07_1	TIER 4	MC	18	0.23	0.05	Ratio and Proportions
111127A	MA_07_1	TIER 3	MC	19	0.46	0.19	The Number System
111076A	MA_07_1	TIER 3	MC	20	0.42	0.04	Ratio and Proportions
111758A	MA_07_1	TIER 1	MC	22	0.72	0.16	Geometry
111098A	MA_07_1	TIER 1	MC	23	0.72	0.17	Expressions and Equations
112899A	MA_07_1	TIER 1	MC	24	0.55	0.20	Ratio and Proportions
111734A	MA_07_1	TIER 2	MC	25	0.58	0.41	Statistics and Probability
112853B	MA_07_1	TIER 2	MC	26	0.43	0.30	Geometry
111093A	MA_07_1	TIER 2	MC	28	0.42	0.35	The Number System
112911A	MA_07_1	TIER 3	MC	30	0.41	0.35	Expressions and Equations
112882A	MA_07_1	TIER 3	MC	31	0.45	0.18	The Number System
111744A	MA_07_1	TIER 2	MC	32	0.66	0.24	Geometry
112901A	MA_07_1	TIER 3	MC	33	0.42	0.12	Ratio and Proportions
111779A	MA_07_1	TIER 2	MC	35	0.48	0.36	Ratio and Proportions
111766A	MA_07_1	TIER 4	MC	37	0.39	0.30	Ratio and Proportions
111055A	MA_07_1	TIER 3	MC	38	0.39	0.17	Geometry
112890A	MA_07_1	TIER 2	MC	39	0.34	0.35	The Number System
111081B	MA_07_1	TIER 3	MC	40	0.34	0.13	Ratio and Proportions

Test Map for Core Items on Grade 7 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111748A	MA_07_2	TIER 1	MC	1	0.74	0.14	Geometry
111778A	MA_07_2	TIER 1	MC	2	0.81	0.15	Ratio and Proportions
111046A	MA_07_2	TIER 1	MC	3	0.87	0.13	Statistics and Probability
112889A	MA_07_2	TIER 1	MC	4	0.62	0.15	The Number System
111804A	MA_07_2	TIER 2	MC	5	0.46	0.15	Expressions and Equations
111769A	MA_07_2	TIER 2	MC	6	0.60	0.25	Ratio and Proportions
111761A	MA_07_2	TIER 3	MC	7	0.34	0.13	Geometry
111080A	MA_07_2	TIER 2	MC	8	0.41	0.23	Ratio and Proportions
111735A	MA_07_2	TIER 3	MC	9	0.44	0.22	Statistics and Probability
111131A	MA_07_2	TIER 2	MC	10	0.38	0.14	Ratio and Proportions
111754B	MA_07_2	TIER 2	MC	11	0.46	0.26	Geometry
111765A	MA_07_2	TIER 3	MC	12	0.39	0.25	Ratio and Proportions
112886A	MA_07_2	TIER 2	MC	13	0.38	0.17	The Number System
112871A	MA_07_2	TIER 3	MC	14	0.49	0.06	Ratio and Proportions
111101A	MA_07_2	TIER 4	MC	15	0.50	0.17	Expressions and Equations
111749A	MA_07_2	TIER 2	MC	16	0.68	0.27	Geometry
111113A	MA_07_2	TIER 3	MC	17	0.38	0.29	The Number System
120525A	MA_07_2	TIER 4	MC	18	0.23	0.01	Ratio and Proportions
111127A	MA_07_2	TIER 3	MC	19	0.46	0.17	The Number System
111076A	MA_07_2	TIER 3	MC	20	0.42	0.12	Ratio and Proportions
112604A	MA_07_2	TIER 1	MC	21	0.73	0.42	Ratio and Proportions
111130A	MA_07_2	TIER 1	MC	23	0.66	0.33	Ratio and Proportions
112909B	MA_07_2	TIER 1	MC	24	0.69	0.26	Expressions and Equations
111047A	MA_07_2	TIER 2	MC	25	0.47	0.46	Statistics and Probability
111070A	MA_07_2	TIER 2	MC	26	0.61	0.53	Ratio and Proportions
112849A	MA_07_2	TIER 3	MC	27	0.57	0.31	Geometry
112895A	MA_07_2	TIER 2	MC	28	0.47	0.33	The Number System
111774A	MA_07_2	TIER 2	MC	29	0.59	0.49	Ratio and Proportions
112887A	MA_07_2	TIER 3	MC	30	0.49	0.41	The Number System
111641A	MA_07_2	TIER 2	MC	31	0.72	0.40	Geometry
111119A	MA_07_2	TIER 3	MC	32	0.45	0.44	Expressions and Equations
111105A	MA_07_2	TIER 3	MC	34	0.46	0.36	Statistics and Probability
111796A	MA_07_2	TIER 4	MC	35	0.43	0.43	The Number System
111059B	MA_07_2	TIER 2	MC	36	0.51	0.31	Geometry
111786A	MA_07_2	TIER 4	MC	38	0.42	0.03	Ratio and Proportions

Test Map for Core Items on Grade 7 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111748A	MA_07_3	TIER 1	MC	1	0.74	0.11	Geometry
111778A	MA_07_3	TIER 1	MC	2	0.81	0.20	Ratio and Proportions
111046A	MA_07_3	TIER 1	MC	3	0.87	0.15	Statistics and Probability
112889A	MA_07_3	TIER 1	MC	4	0.62	0.16	The Number System
111804A	MA_07_3	TIER 2	MC	5	0.46	0.19	Expressions and Equations
111769A	MA_07_3	TIER 2	MC	6	0.60	0.26	Ratio and Proportions
111761A	MA_07_3	TIER 3	MC	7	0.34	0.12	Geometry
111080A	MA_07_3	TIER 2	MC	8	0.41	0.25	Ratio and Proportions
111735A	MA_07_3	TIER 3	MC	9	0.44	0.19	Statistics and Probability
111131A	MA_07_3	TIER 2	MC	10	0.38	0.15	Ratio and Proportions
111754B	MA_07_3	TIER 2	MC	11	0.46	0.23	Geometry
111765A	MA_07_3	TIER 3	MC	12	0.39	0.26	Ratio and Proportions
112886A	MA_07_3	TIER 2	MC	13	0.38	0.22	The Number System
112871A	MA_07_3	TIER 3	MC	14	0.49	0.06	Ratio and Proportions
111101A	MA_07_3	TIER 4	MC	15	0.50	0.20	Expressions and Equations
111749A	MA_07_3	TIER 2	MC	16	0.68	0.27	Geometry
111113A	MA_07_3	TIER 3	MC	17	0.38	0.24	The Number System
120525A	MA_07_3	TIER 4	MC	18	0.23	-0.07	Ratio and Proportions
111127A	MA_07_3	TIER 3	MC	19	0.46	0.21	The Number System
111076A	MA_07_3	TIER 3	MC	20	0.42	0.11	Ratio and Proportions
112852A	MA_07_3	TIER 1	MC	21	0.66	0.34	Geometry
112869B	MA_07_3	TIER 1	MC	24	0.77	0.30	Ratio and Proportions
111739A	MA_07_3	TIER 2	MC	25	0.67	0.42	Statistics and Probability
111789A	MA_07_3	TIER 2	MC	26	0.44	0.24	The Number System
111745A	MA_07_3	TIER 3	MC	27	0.43	0.17	Geometry
111075A	MA_07_3	TIER 2	MC	28	0.67	0.47	Ratio and Proportions
112910A	MA_07_3	TIER 2	MC	29	0.43	0.37	Expressions and Equations
111066A	MA_07_3	TIER 3	MC	31	0.49	0.25	Geometry
111126A	MA_07_3	TIER 2	MC	32	0.36	0.45	The Number System
111800A	MA_07_3	TIER 3	MC	33	0.29	0.18	Ratio and Proportions
111764B	MA_07_3	TIER 2	MC	35	0.41	0.48	Ratio and Proportions
111048A	MA_07_3	TIER 3	MC	36	0.50	0.39	Statistics and Probability
113101A	MA_07_3	TIER 4	MC	37	0.45	0.36	The Number System
111805A	MA_07_3	TIER 3	MC	39	0.44	0.37	Expressions and Equations
112606A	MA_07_3	TIER 3	MC	40	0.56	0.41	Ratio and Proportions

Test Map for Core Items on Grade 7 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
111748A	MA_07_4	TIER 1	MC	1	0.74	0.05	Geometry
111778A	MA_07_4	TIER 1	MC	2	0.81	0.18	Ratio and Proportions
111046A	MA_07_4	TIER 1	MC	3	0.87	0.09	Statistics and Probability
112889A	MA_07_4	TIER 1	MC	4	0.62	0.10	The Number System
111804A	MA_07_4	TIER 2	MC	5	0.46	0.08	Expressions and Equations
111769A	MA_07_4	TIER 2	MC	6	0.60	0.20	Ratio and Proportions
111761A	MA_07_4	TIER 3	MC	7	0.34	0.07	Geometry
111080A	MA_07_4	TIER 2	MC	8	0.41	0.18	Ratio and Proportions
111735A	MA_07_4	TIER 3	MC	9	0.44	0.16	Statistics and Probability
111131A	MA_07_4	TIER 2	MC	10	0.38	0.12	Ratio and Proportions
111754B	MA_07_4	TIER 2	MC	11	0.46	0.20	Geometry
111765A	MA_07_4	TIER 3	MC	12	0.39	0.27	Ratio and Proportions
112886A	MA_07_4	TIER 2	MC	13	0.38	0.14	The Number System
112871A	MA_07_4	TIER 3	MC	14	0.49	0.11	Ratio and Proportions
111101A	MA_07_4	TIER 4	MC	15	0.50	0.16	Expressions and Equations
111749A	MA_07_4	TIER 2	MC	16	0.68	0.22	Geometry
111113A	MA_07_4	TIER 3	MC	17	0.38	0.19	The Number System
120525A	MA_07_4	TIER 4	MC	18	0.23	0.00	Ratio and Proportions
111127A	MA_07_4	TIER 3	MC	19	0.46	0.16	The Number System
111076A	MA_07_4	TIER 3	MC	20	0.42	0.07	Ratio and Proportions
111783A	MA_07_4	TIER 1	MC	23	0.81	0.29	Ratio and Proportions
112880A	MA_07_4	TIER 1	MC	24	0.59	0.18	The Number System
111759B	MA_07_4	TIER 2	MC	26	0.54	0.26	Geometry
111100A	MA_07_4	TIER 3	MC	27	0.52	0.22	Expressions and Equations
112865A	MA_07_4	TIER 2	MC	28	0.61	0.37	Ratio and Proportions
111104A	MA_07_4	TIER 2	MC	29	0.54	0.42	Statistics and Probability
111132A	MA_07_4	TIER 3	MC	30	0.40	0.05	Ratio and Proportions
111794B	MA_07_4	TIER 2	MC	31	0.39	0.28	The Number System
111841A	MA_07_4	TIER 3	MC	32	0.32	0.29	Geometry
111799A	MA_07_4	TIER 2	MC	33	0.45	0.23	Ratio and Proportions
111118A	MA_07_4	TIER 2	MC	36	0.41	0.25	Expressions and Equations
111071A	MA_07_4	TIER 3	MC	37	0.44	0.39	Ratio and Proportions
111067A	MA_07_4	TIER 4	MC	38	0.33	0.12	Geometry
112896A	MA_07_4	TIER 3	MC	39	0.49	0.22	The Number System
111086B	MA_07_4	TIER 3	MC	40	0.40	0.26	Ratio and Proportions

Test Map for Core Items on Grade 8 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112484A	MA_08_1	TIER 1	MC	1	0.74	0.22	Geometry
111581A	MA_08_1	TIER 1	MC	2	0.61	0.16	Expressions and Equations
111285A	MA_08_1	TIER 1	MC	3	0.52	0.08	Statistics and Probability
113926A	MA_08_1	TIER 1	MC	4	0.59	0.21	Geometry
113978A	MA_08_1	TIER 2	MC	5	0.55	0.20	Functions
111622A	MA_08_1	TIER 3	MC	6	0.47	0.25	Expressions and Equations
113938A	MA_08_1	TIER 2	MC	7	0.39	0.21	The Number System
112466A	MA_08_1	TIER 3	MC	8	0.51	0.13	Statistics and Probability
111594A	MA_08_1	TIER 4	MC	9	0.50	0.24	Functions
112470A	MA_08_1	TIER 2	MC	10	0.64	0.14	Geometry
111583A	MA_08_1	TIER 3	MC	11	0.36	0.16	Expressions and Equations
113908A	MA_08_1	TIER 2	MC	12	0.56	0.23	Statistics and Probability
111336A	MA_08_1	TIER 3	MC	13	0.43	0.19	Geometry
112505A	MA_08_1	TIER 2	MC	14	0.44	0.14	Functions
112476A	MA_08_1	TIER 3	MC	15	0.54	0.05	Geometry
113972A	MA_08_1	TIER 3	MC	16	0.32	0.16	Functions
112515B	MA_08_1	TIER 2	MC	17	0.38	0.22	Expressions and Equations
122099A	MA_08_1	TIER 3	MC	18	0.48	0.27	The Number System
112480A	MA_08_1	TIER 2	MC	19	0.45	0.22	Geometry
122050A	MA_08_1	TIER 4	CR - 1pt	20	0.47	0.23	Statistics and Probability
111247A	MA_08_1	TIER 1	MC	22	0.71	0.43	Statistics and Probability
113934A	MA_08_1	TIER 1	MC	23	0.80	0.24	The Number System
117071A	MA_08_1	TIER 1	MC	24	0.65	0.19	Functions
113922A	MA_08_1	TIER 2	MC	25	0.50	0.48	Geometry
111339A	MA_08_1	TIER 4	MC	28	0.47	0.32	Geometry
113968A	MA_08_1	TIER 3	MC	30	0.61	0.33	Expressions and Equations
112481A	MA_08_1	TIER 3	MC	31	0.37	0.31	Geometry
111281A	MA_08_1	TIER 2	MC	32	0.54	0.16	Statistics and Probability
120569B	MA_08_1	TIER 3	MC	33	0.41	0.16	Functions
113931A	MA_08_1	TIER 4	MC	34	0.39	0.22	The Number System
112495A	MA_08_1	TIER 2	MC	35	0.46	0.39	Geometry
113942A	MA_08_1	TIER 3	MC	37	0.59	0.27	Functions
113918A	MA_08_1	TIER 2	MC	38	0.68	0.32	Geometry
113952A	MA_08_1	TIER 2	MC	39	0.44	0.27	Expressions and Equations
122051A	MA_08_1	TIER 3	CR - 1pt	40	0.46	0.33	Statistics and Probability

Test Map for Core Items on Grade 8 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112484A	MA_08_2	TIER 1	MC	1	0.74	0.14	Geometry
111581A	MA_08_2	TIER 1	MC	2	0.61	0.07	Expressions and Equations
111285A	MA_08_2	TIER 1	MC	3	0.52	0.00	Statistics and Probability
113926A	MA_08_2	TIER 1	MC	4	0.59	0.24	Geometry
113978A	MA_08_2	TIER 2	MC	5	0.55	0.24	Functions
111622A	MA_08_2	TIER 3	MC	6	0.47	0.17	Expressions and Equations
113938A	MA_08_2	TIER 2	MC	7	0.39	0.23	The Number System
112466A	MA_08_2	TIER 3	MC	8	0.51	0.21	Statistics and Probability
111594A	MA_08_2	TIER 4	MC	9	0.50	0.09	Functions
112470A	MA_08_2	TIER 2	MC	10	0.64	0.25	Geometry
111583A	MA_08_2	TIER 3	MC	11	0.36	0.19	Expressions and Equations
113908A	MA_08_2	TIER 2	MC	12	0.56	0.21	Statistics and Probability
111336A	MA_08_2	TIER 3	MC	13	0.43	0.12	Geometry
112505A	MA_08_2	TIER 2	MC	14	0.44	0.14	Functions
112476A	MA_08_2	TIER 3	MC	15	0.54	0.05	Geometry
113972A	MA_08_2	TIER 3	MC	16	0.32	0.02	Functions
112515B	MA_08_2	TIER 2	MC	17	0.38	0.15	Expressions and Equations
122099A	MA_08_2	TIER 3	MC	18	0.48	0.24	The Number System
112480A	MA_08_2	TIER 2	MC	19	0.45	0.27	Geometry
122050A	MA_08_2	TIER 4	CR - 1pt	20	0.47	0.19	Statistics and Probability
112499A	MA_08_2	TIER 1	MC	21	0.84	0.27	The Number System
113909A	MA_08_2	TIER 1	MC	23	0.74	0.42	Statistics and Probability
113944A	MA_08_2	TIER 1	MC	24	0.64	0.26	Functions
112490A	MA_08_2	TIER 2	MC	25	0.47	0.27	Geometry
112506A	MA_08_2	TIER 3	MC	28	0.64	0.19	Functions
113933A	MA_08_2	TIER 2	MC	31	0.50	0.32	The Number System
113923A	MA_08_2	TIER 3	MC	32	0.52	0.29	Geometry
113973A	MA_08_2	TIER 2	MC	33	0.57	0.36	Functions
112516A	MA_08_2	TIER 3	MC	34	0.44	0.34	Expressions and Equations
112460A	MA_08_2	TIER 2	MC	35	0.52	0.34	Statistics and Probability
113917A	MA_08_2	TIER 3	MC	36	0.69	0.20	Geometry
113976A	MA_08_2	TIER 4	MC	37	0.19	-0.20	Functions
112510A	MA_08_2	TIER 2	MC	38	0.50	0.29	Expressions and Equations
112496A	MA_08_2	TIER 3	MC	39	0.43	0.13	Geometry
120560A	MA_08_2	TIER 3	MC	40	0.58	0.37	Statistics and Probability

Test Map for Core Items on Grade 8 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112484A	MA_08_3	TIER 1	MC	1	0.74	0.18	Geometry
111581A	MA_08_3	TIER 1	MC	2	0.61	0.15	Expressions and Equations
111285A	MA_08_3	TIER 1	MC	3	0.52	0.04	Statistics and Probability
113926A	MA_08_3	TIER 1	MC	4	0.59	0.23	Geometry
113978A	MA_08_3	TIER 2	MC	5	0.55	0.21	Functions
111622A	MA_08_3	TIER 3	MC	6	0.47	0.21	Expressions and Equations
113938A	MA_08_3	TIER 2	MC	7	0.39	0.23	The Number System
112466A	MA_08_3	TIER 3	MC	8	0.51	0.15	Statistics and Probability
111594A	MA_08_3	TIER 4	MC	9	0.50	0.17	Functions
112470A	MA_08_3	TIER 2	MC	10	0.64	0.17	Geometry
111583A	MA_08_3	TIER 3	MC	11	0.36	0.17	Expressions and Equations
113908A	MA_08_3	TIER 2	MC	12	0.56	0.20	Statistics and Probability
111336A	MA_08_3	TIER 3	MC	13	0.43	0.18	Geometry
112505A	MA_08_3	TIER 2	MC	14	0.44	0.14	Functions
112476A	MA_08_3	TIER 3	MC	15	0.54	0.12	Geometry
113972A	MA_08_3	TIER 3	MC	16	0.32	-0.02	Functions
112515B	MA_08_3	TIER 2	MC	17	0.38	0.17	Expressions and Equations
122099A	MA_08_3	TIER 3	MC	18	0.48	0.27	The Number System
112480A	MA_08_3	TIER 2	MC	19	0.45	0.24	Geometry
122050A	MA_08_3	TIER 4	CR - 1pt	20	0.47	0.16	Statistics and Probability
112464A	MA_08_3	TIER 1	MC	21	0.64	0.38	Statistics and Probability
111615A	MA_08_3	TIER 1	MC	22	0.53	0.12	Functions
112474B	MA_08_3	TIER 1	MC	23	0.90	0.27	Geometry
111253B	MA_08_3	TIER 2	MC	25	0.37	-0.01	Statistics and Probability
111560A	MA_08_3	TIER 3	MC	26	0.49	0.39	Geometry
113957A	MA_08_3	TIER 2	MC	27	0.33	0.38	Expressions and Equations
112491A	MA_08_3	TIER 3	MC	28	0.43	0.33	Geometry
111286A	MA_08_3	TIER 2	MC	33	0.42	0.35	Statistics and Probability
113932A	MA_08_3	TIER 3	MC	34	0.41	0.20	The Number System
113927A	MA_08_3	TIER 2	MC	35	0.41	0.42	Geometry
111623A	MA_08_3	TIER 4	MC	36	0.37	0.36	Expressions and Equations
117072A	MA_08_3	TIER 2	MC	37	0.39	0.28	Functions
111593A	MA_08_3	TIER 3	MC	38	0.33	0.31	Functions
111565A	MA_08_3	TIER 3	MC	39	0.60	0.37	Geometry
122047A	MA_08_3	TIER 3	CR - 1pt	40	0.50	0.48	Statistics and Probability

Test Map for Core Items on Grade 8 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112484A	MA_08_4	TIER 1	MC	1	0.74	0.16	Geometry
111581A	MA_08_4	TIER 1	MC	2	0.61	0.10	Expressions and Equations
111285A	MA_08_4	TIER 1	MC	3	0.52	0.02	Statistics and Probability
113926A	MA_08_4	TIER 1	MC	4	0.59	0.18	Geometry
113978A	MA_08_4	TIER 2	MC	5	0.55	0.20	Functions
111622A	MA_08_4	TIER 3	MC	6	0.47	0.21	Expressions and Equations
113938A	MA_08_4	TIER 2	MC	7	0.39	0.30	The Number System
112466A	MA_08_4	TIER 3	MC	8	0.51	0.15	Statistics and Probability
111594A	MA_08_4	TIER 4	MC	9	0.50	0.15	Functions
112470A	MA_08_4	TIER 2	MC	10	0.64	0.16	Geometry
111583A	MA_08_4	TIER 3	MC	11	0.36	0.15	Expressions and Equations
113908A	MA_08_4	TIER 2	MC	12	0.56	0.18	Statistics and Probability
111336A	MA_08_4	TIER 3	MC	13	0.43	0.23	Geometry
112505A	MA_08_4	TIER 2	MC	14	0.44	0.08	Functions
112476A	MA_08_4	TIER 3	MC	15	0.54	0.14	Geometry
113972A	MA_08_4	TIER 3	MC	16	0.32	0.01	Functions
112515B	MA_08_4	TIER 2	MC	17	0.38	0.18	Expressions and Equations
122099A	MA_08_4	TIER 3	MC	18	0.48	0.26	The Number System
112480A	MA_08_4	TIER 2	MC	19	0.45	0.19	Geometry
122050A	MA_08_4	TIER 4	CR - 1pt	20	0.47	0.22	Statistics and Probability
111352A	MA_08_4	TIER 1	MC	21	0.80	0.14	Geometry
112519A	MA_08_4	TIER 1	MC	22	0.61	0.08	Functions
113966A	MA_08_4	TIER 1	MC	24	0.44	0.32	Expressions and Equations
112452A	MA_08_4	TIER 2	MC	25	0.52	0.21	Statistics and Probability
113963A	MA_08_4	TIER 3	MC	26	0.40	0.45	Expressions and Equations
117075A	MA_08_4	TIER 3	MC	28	0.28	0.03	Functions
112475B	MA_08_4	TIER 2	MC	29	0.66	0.31	Geometry
113953B	MA_08_4	TIER 3	MC	30	0.39	0.27	Expressions and Equations
112486A	MA_08_4	TIER 3	MC	33	0.46	0.25	Geometry
112465A	MA_08_4	TIER 2	MC	34	0.31	0.16	Statistics and Probability
113937A	MA_08_4	TIER 3	MC	35	0.38	0.30	The Number System
112477A	MA_08_4	TIER 4	MC	36	0.32	0.22	Geometry
111582B	MA_08_4	TIER 2	MC	37	0.39	0.28	Expressions and Equations
120546B	MA_08_4	TIER 3	MC	38	0.39	0.24	Statistics and Probability
111335A	MA_08_4	TIER 2	MC	39	0.50	0.36	Geometry

Test Map for Core Items on Grade 11 Mathematics Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112726A	MA_11_1	TIER 1	MC	1	0.76	0.23	Algebra And Functions
111533A	MA_11_1	TIER 1	MC	2	0.74	0.23	Statistics and Probability
111830A	MA_11_1	TIER 1	MC	3	0.69	0.12	Algebra And Functions
111817A	MA_11_1	TIER 1	MC	4	0.49	0.14	Number and Quantity
112921B	MA_11_1	TIER 2	MC	5	0.38	0.05	Statistics and Probability
112946A	MA_11_1	TIER 3	MC	6	0.51	0.19	Algebra And Functions
111109B	MA_11_1	TIER 2	MC	7	0.45	0.12	Geometry
111824A	MA_11_1	TIER 3	MC	8	0.46	0.17	Algebra And Functions
111557A	MA_11_1	TIER 2	MC	9	0.44	0.29	Number and Quantity
112734A	MA_11_1	TIER 4	MC	10	0.36	0.04	Algebra And Functions
112717A	MA_11_1	TIER 2	MC	11	0.45	0.28	Number and Quantity
110921A	MA_11_1	TIER 3	MC	12	0.48	0.19	Algebra And Functions
110851A	MA_11_1	TIER 2	MC	13	0.43	0.29	Algebra And Functions
111538A	MA_11_1	TIER 3	MC	14	0.40	0.27	Statistics and Probability
112708A	MA_11_1	TIER 2	MC	15	0.47	0.28	Algebra And Functions
112931A	MA_11_1	TIER 3	MC	16	0.40	0.23	Geometry
112945A	MA_11_1	TIER 2	MC	17	0.60	0.21	Algebra And Functions
112703A	MA_11_1	TIER 3	MC	18	0.37	0.26	Number and Quantity
112936A	MA_11_1	TIER 3	MC	19	0.36	0.23	Algebra And Functions
122054A	MA_11_1	TIER 4	CR - 1pt	20	0.42	0.07	Statistics and Probability
111832B	MA_11_1	TIER 1	MC	22	0.77	0.17	Algebra And Functions
110936A	MA_11_1	TIER 1	MC	23	0.55	0.30	Statistics and Probability
112944A	MA_11_1	TIER 1	MC	24	0.80	0.25	Algebra And Functions
110847A	MA_11_1	TIER 3	MC	26	0.46	0.34	Algebra And Functions
112941A	MA_11_1	TIER 3	MC	28	0.44	0.34	Algebra And Functions
111537A	MA_11_1	TIER 4	MC	29	0.37	0.27	Statistics and Probability
110970A	MA_11_1	TIER 2	MC	30	0.55	0.29	Algebra And Functions
111032A	MA_11_1	TIER 3	MC	31	0.37	0.34	Number and Quantity
111810A	MA_11_1	TIER 2	MC	32	0.44	0.48	Algebra And Functions
111544A	MA_11_1	TIER 3	MC	33	0.34	0.36	Geometry
112722A	MA_11_1	TIER 2	MC	34	0.54	0.43	Algebra And Functions
110914A	MA_11_1	TIER 2	MC	36	0.41	0.37	Number and Quantity
111554B	MA_11_1	TIER 3	MC	38	0.43	0.42	Number and Quantity
111016A	MA_11_1	TIER 2	MC	39	0.41	0.29	Algebra And Functions
122055A	MA_11_1	TIER 3	CR - 1pt	40	0.44	0.18	Statistics and Probability

Test Map for Core Items on Grade 11 Mathematics Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112726A	MA_11_2	TIER 1	MC	1	0.76	0.21	Algebra And Functions
111533A	MA_11_2	TIER 1	MC	2	0.74	0.28	Statistics and Probability
111830A	MA_11_2	TIER 1	MC	3	0.69	0.07	Algebra And Functions
111817A	MA_11_2	TIER 1	MC	4	0.49	0.08	Number and Quantity
112921B	MA_11_2	TIER 2	MC	5	0.38	0.08	Statistics and Probability
112946A	MA_11_2	TIER 3	MC	6	0.51	0.23	Algebra And Functions
111109B	MA_11_2	TIER 2	MC	7	0.45	0.10	Geometry
111824A	MA_11_2	TIER 3	MC	8	0.46	0.21	Algebra And Functions
111557A	MA_11_2	TIER 2	MC	9	0.44	0.26	Number and Quantity
112734A	MA_11_2	TIER 4	MC	10	0.36	0.00	Algebra And Functions
112717A	MA_11_2	TIER 2	MC	11	0.45	0.31	Number and Quantity
110921A	MA_11_2	TIER 3	MC	12	0.48	0.16	Algebra And Functions
110851A	MA_11_2	TIER 2	MC	13	0.43	0.23	Algebra And Functions
111538A	MA_11_2	TIER 3	MC	14	0.40	0.26	Statistics and Probability
112708A	MA_11_2	TIER 2	MC	15	0.47	0.33	Algebra And Functions
112931A	MA_11_2	TIER 3	MC	16	0.40	0.13	Geometry
112945A	MA_11_2	TIER 2	MC	17	0.60	0.14	Algebra And Functions
112703A	MA_11_2	TIER 3	MC	18	0.37	0.27	Number and Quantity
112936A	MA_11_2	TIER 3	MC	19	0.36	0.28	Algebra And Functions
122054A	MA_11_2	TIER 4	CR - 1pt	20	0.42	0.04	Statistics and Probability
110915A	MA_11_2	TIER 1	MC	21	0.72	0.29	Number and Quantity
110867A	MA_11_2	TIER 1	MC	22	0.72	0.29	Algebra And Functions
112702A	MA_11_2	TIER 2	MC	25	0.44	0.22	Number and Quantity
112723A	MA_11_2	TIER 3	MC	26	0.43	0.45	Algebra And Functions
112733A	MA_11_2	TIER 3	MC	28	0.41	0.04	Algebra And Functions
111539A	MA_11_2	TIER 2	MC	29	0.46	0.34	Statistics and Probability
111033A	MA_11_2	TIER 2	MC	31	0.44	0.37	Number and Quantity
111108A	MA_11_2	TIER 3	MC	33	0.39	0.20	Geometry
111006A	MA_11_2	TIER 2	MC	34	0.55	0.28	Algebra And Functions
110843A	MA_11_2	TIER 3	MC	35	0.35	0.08	Number and Quantity
111815A	MA_11_2	TIER 2	MC	36	0.40	0.20	Algebra And Functions
110881A	MA_11_2	TIER 3	MC	37	0.55	0.22	Statistics and Probability
110968A	MA_11_2	TIER 4	MC	38	0.45	0.18	Algebra And Functions
111828A	MA_11_2	TIER 2	MC	39	0.35	0.44	Algebra And Functions
122053A	MA_11_2	TIER 3	CR - 1pt	40	0.44	-0.10	Statistics and Probability

Test Map for Core Items on Grade 11 Mathematics Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112726A	MA_11_3	TIER 1	MC	1	0.76	0.22	Algebra And Functions
111533A	MA_11_3	TIER 1	MC	2	0.74	0.22	Statistics and Probability
111830A	MA_11_3	TIER 1	MC	3	0.69	0.15	Algebra And Functions
111817A	MA_11_3	TIER 1	MC	4	0.49	0.13	Number and Quantity
112921B	MA_11_3	TIER 2	MC	5	0.38	0.12	Statistics and Probability
112946A	MA_11_3	TIER 3	MC	6	0.51	0.30	Algebra And Functions
111109B	MA_11_3	TIER 2	MC	7	0.45	0.14	Geometry
111824A	MA_11_3	TIER 3	MC	8	0.46	0.18	Algebra And Functions
111557A	MA_11_3	TIER 2	MC	9	0.44	0.22	Number and Quantity
112734A	MA_11_3	TIER 4	MC	10	0.36	-0.01	Algebra And Functions
112717A	MA_11_3	TIER 2	MC	11	0.45	0.29	Number and Quantity
110921A	MA_11_3	TIER 3	MC	12	0.48	0.20	Algebra And Functions
110851A	MA_11_3	TIER 2	MC	13	0.43	0.25	Algebra And Functions
111538A	MA_11_3	TIER 3	MC	14	0.40	0.29	Statistics and Probability
112708A	MA_11_3	TIER 2	MC	15	0.47	0.26	Algebra And Functions
112931A	MA_11_3	TIER 3	MC	16	0.40	0.15	Geometry
112945A	MA_11_3	TIER 2	MC	17	0.60	0.17	Algebra And Functions
112703A	MA_11_3	TIER 3	MC	18	0.37	0.21	Number and Quantity
112936A	MA_11_3	TIER 3	MC	19	0.36	0.19	Algebra And Functions
122054A	MA_11_3	TIER 4	CR - 1pt	20	0.42	0.04	Statistics and Probability
111808A	MA_11_3	TIER 1	MC	21	0.70	0.36	Algebra And Functions
112701A	MA_11_3	TIER 1	MC	24	0.68	0.50	Number and Quantity
111840A	MA_11_3	TIER 2	MC	25	0.58	0.16	Algebra And Functions
110913A	MA_11_3	TIER 3	MC	26	0.50	0.38	Number and Quantity
112727A	MA_11_3	TIER 2	MC	27	0.60	0.32	Algebra And Functions
110841A	MA_11_3	TIER 4	MC	28	0.47	0.27	Number and Quantity
112744A	MA_11_3	TIER 2	MC	29	0.49	0.38	Algebra And Functions
111814A	MA_11_3	TIER 3	MC	30	0.45	0.04	Algebra And Functions
111043A	MA_11_3	TIER 2	MC	31	0.50	0.20	Statistics and Probability
110858A	MA_11_3	TIER 3	MC	32	0.52	0.47	Algebra And Functions
112743A	MA_11_3	TIER 3	MC	34	0.42	0.01	Algebra And Functions
111545A	MA_11_3	TIER 4	MC	35	0.35	0.16	Geometry
112940A	MA_11_3	TIER 2	MC	36	0.53	0.20	Algebra And Functions
111543B	MA_11_3	TIER 2	MC	39	0.43	0.02	Geometry
122058A	MA_11_3	TIER 3	CR - 1pt	40	0.55	0.22	Statistics and Probability

Test Map for Core Items on Grade 11 Mathematics Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
112726A	MA_11_4	TIER 1	MC	1	0.76	0.18	Algebra And Functions
111533A	MA_11_4	TIER 1	MC	2	0.74	0.25	Statistics and Probability
111830A	MA_11_4	TIER 1	MC	3	0.69	0.14	Algebra And Functions
111817A	MA_11_4	TIER 1	MC	4	0.49	0.16	Number and Quantity
112921B	MA_11_4	TIER 2	MC	5	0.38	0.11	Statistics and Probability
112946A	MA_11_4	TIER 3	MC	6	0.51	0.27	Algebra And Functions
111109B	MA_11_4	TIER 2	MC	7	0.45	0.16	Geometry
111824A	MA_11_4	TIER 3	MC	8	0.46	0.21	Algebra And Functions
111557A	MA_11_4	TIER 2	MC	9	0.44	0.27	Number and Quantity
112734A	MA_11_4	TIER 4	MC	10	0.36	0.03	Algebra And Functions
112717A	MA_11_4	TIER 2	MC	11	0.45	0.25	Number and Quantity
110921A	MA_11_4	TIER 3	MC	12	0.48	0.20	Algebra And Functions
110851A	MA_11_4	TIER 2	MC	13	0.43	0.29	Algebra And Functions
111538A	MA_11_4	TIER 3	MC	14	0.40	0.31	Statistics and Probability
112708A	MA_11_4	TIER 2	MC	15	0.47	0.29	Algebra And Functions
112931A	MA_11_4	TIER 3	MC	16	0.40	0.25	Geometry
112945A	MA_11_4	TIER 2	MC	17	0.60	0.20	Algebra And Functions
112703A	MA_11_4	TIER 3	MC	18	0.37	0.23	Number and Quantity
112936A	MA_11_4	TIER 3	MC	19	0.36	0.22	Algebra And Functions
122054A	MA_11_4	TIER 4	CR - 1pt	20	0.42	0.07	Statistics and Probability
111813A	MA_11_4	TIER 1	MC	21	0.75	0.29	Algebra And Functions
111546A	MA_11_4	TIER 1	MC	22	0.57	0.29	Geometry
111823A	MA_11_4	TIER 2	MC	27	0.54	0.44	Algebra And Functions
111819A	MA_11_4	TIER 3	MC	28	0.37	0.36	Number and Quantity
111000A	MA_11_4	TIER 4	MC	29	0.55	0.42	Algebra And Functions
110935B	MA_11_4	TIER 2	MC	30	0.47	0.28	Statistics and Probability
110969B	MA_11_4	TIER 3	MC	31	0.53	0.46	Algebra And Functions
110882A	MA_11_4	TIER 2	MC	32	0.44	0.43	Statistics and Probability
111833B	MA_11_4	TIER 3	MC	33	0.52	0.23	Algebra And Functions
111553A	MA_11_4	TIER 2	MC	34	0.49	0.52	Number and Quantity
111809A	MA_11_4	TIER 3	MC	35	0.47	0.37	Algebra And Functions
112935A	MA_11_4	TIER 2	MC	37	0.32	0.41	Algebra And Functions
111548A	MA_11_4	TIER 3	MC	38	0.40	0.29	Geometry
112732A	MA_11_4	TIER 2	MC	39	0.48	0.35	Algebra And Functions
122021A	MA_11_4	TIER 3	CR - 1pt	40	0.41	0.11	Statistics and Probability

Test Map for Core Items on Grade 3 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
300001P	RD_03_1	TIER 2	CR - 2pts	6	0.66	0.39	Reading Informational Text
121545A	RD_03_1	TIER 2	MC	7	0.55	0.34	Reading Informational Text
114010A	RD_03_1	TIER 2	MC	8	0.73	0.29	Reading Informational Text
114011A	RD_03_1	TIER 2	MC	9	0.48	-0.02	Reading Informational Text
121731B	RD_03_1	TIER 2	MC	10	0.35	0.18	Reading Informational Text
300002V	RD_03_1	TIER 2	CR - 1pt	11	0.38	0.27	Foundational-Reading at Word Level
300002N	RD_03_1	TIER 2	CR - 1pt	12	0.34	0.39	Foundational-Reading at Word Level
300003P	RD_03_1	TIER 3	CR - 2pts	13	0.40	0.14	Reading Literature
116203A	RD_03_1	TIER 3	MC	14	0.53	0.34	Reading Literature
116202A	RD_03_1	TIER 3	MC	15	0.56	0.29	Reading Literature
116205A	RD_03_1	TIER 3	MC	16	0.78	0.26	Reading Literature
116204A	RD_03_1	TIER 3	MC	17	0.65	0.39	Reading Literature
114957A	RD_03_1	TIER 1	MC	18	0.81	0.48	Reading at Word Level
120967A	RD_03_1	TIER 1	MC	19	0.83	0.50	Reading Informational Text
114958A	RD_03_1	TIER 1	MC	20	0.86	0.43	Reading Informational Text
114960A	RD_03_1	TIER 1	MC	21	0.65	0.19	Reading Informational Text
300004P	RD_03_1	TIER 3	CR - 2pts	22	0.48	0.39	Reading Informational Text
115985A	RD_03_1	TIER 3	MC	23	0.67	0.46	Reading Literature
115987A	RD_03_1	TIER 3	MC	24	0.69	0.14	Reading Literature
115988A	RD_03_1	TIER 3	MC	25	0.70	0.31	Reading Literature
115986A	RD_03_1	TIER 3	MC	26	0.65	0.30	Reading Literature
300005V	RD_03_1	TIER 3	CR - 1pt	27	0.35	0.39	Reading at Word Level
300005N	RD_03_1	TIER 3	CR - 1pt	28	0.24	0.32	Foundational-Reading at Word Level

Test Map for Core Items on Grade 3 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121423A	RD_03_2	TIER 1	MC	1	0.86	0.35	Reading Literature
120785A	RD_03_2	TIER 1	MC	2	0.88	0.33	Reading Literature
120787A	RD_03_2	TIER 1	MC	3	0.83	0.37	Reading Literature
120786A	RD_03_2	TIER 1	MC	4	0.72	0.37	Reading Literature
121428A	RD_03_2	TIER 1	MC	5	0.88	0.34	Reading at Word Level
300001P	RD_03_2	TIER 2	CR - 2pts	6	0.66	0.41	Reading Informational Text
121545A	RD_03_2	TIER 2	MC	7	0.55	0.33	Reading Informational Text
114010A	RD_03_2	TIER 2	MC	8	0.73	0.29	Reading Informational Text
114011A	RD_03_2	TIER 2	MC	9	0.48	0.04	Reading Informational Text
121731B	RD_03_2	TIER 2	MC	10	0.35	0.21	Reading Informational Text
300002V	RD_03_2	TIER 2	CR - 1pt	11	0.38	0.29	Foundational-Reading at Word Level
300002N	RD_03_2	TIER 2	CR - 1pt	12	0.34	0.37	Foundational-Reading at Word Level
300003P	RD_03_2	TIER 3	CR - 2pts	13	0.40	0.16	Reading Literature
116203A	RD_03_2	TIER 3	MC	14	0.53	0.36	Reading Literature
116202A	RD_03_2	TIER 3	MC	15	0.56	0.28	Reading Literature
116205A	RD_03_2	TIER 3	MC	16	0.78	0.27	Reading Literature
116204A	RD_03_2	TIER 3	MC	17	0.65	0.45	Reading at Word Level
114725A	RD_03_2	TIER 3	MC	23	0.52	0.04	Reading Informational Text
114723A	RD_03_2	TIER 3	MC	24	0.64	0.55	Reading Informational Text
114726A	RD_03_2	TIER 3	MC	25	0.68	0.13	Reading Informational Text
121778B	RD_03_2	TIER 3	MC	26	0.41	0.22	Reading Informational Text
114724A	RD_03_2	TIER 3	MC	27	0.70	0.59	Reading at Word Level
300007V	RD_03_2	TIER 1	CR - 1pt	28	0.60	0.25	Foundational-Reading at Word Level
300007N	RD_03_2	TIER 1	CR - 1pt	29	0.57	0.01	Foundational-Reading at Word Level

Test Map for Core Items on Grade 3 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121423A	RD_03_3	TIER 1	MC	1	0.86	0.35	Reading Literature
120785A	RD_03_3	TIER 1	MC	2	0.88	0.34	Reading Literature
120787A	RD_03_3	TIER 1	MC	3	0.83	0.36	Reading Literature
120786A	RD_03_3	TIER 1	MC	4	0.72	0.36	Reading Literature
121428A	RD_03_3	TIER 1	MC	5	0.88	0.31	Reading at Word Level
300001P	RD_03_3	TIER 2	CR - 2pts	6	0.66	0.36	Reading Informational Text
121545A	RD_03_3	TIER 2	MC	7	0.55	0.37	Reading Informational Text
114010A	RD_03_3	TIER 2	MC	8	0.73	0.27	Reading Informational Text
114011A	RD_03_3	TIER 2	MC	9	0.48	-0.01	Reading Informational Text
121731B	RD_03_3	TIER 2	MC	10	0.35	0.17	Reading Informational Text
300002V	RD_03_3	TIER 2	CR - 1pt	11	0.38	0.25	Foundational-Reading at Word Level
300002N	RD_03_3	TIER 2	CR - 1pt	12	0.34	0.32	Foundational-Reading at Word Level
300003P	RD_03_3	TIER 3	CR - 2pts	13	0.40	0.13	Reading Literature
116203A	RD_03_3	TIER 3	MC	14	0.53	0.31	Reading Literature
116202A	RD_03_3	TIER 3	MC	15	0.56	0.26	Reading Literature
116205A	RD_03_3	TIER 3	MC	16	0.78	0.31	Reading Literature
116204A	RD_03_3	TIER 3	MC	17	0.65	0.44	Reading at Word Level
121184A	RD_03_3	TIER 3	MC	24	0.70	0.15	Reading Informational Text
117670A	RD_03_3	TIER 3	MC	25	0.71	0.47	Reading Informational Text
122067A	RD_03_3	TIER 3	MC	26	0.22	0.22	Reading Informational Text
117671B	RD_03_3	TIER 3	MC	27	0.50	-0.20	Reading Informational Text
117673A	RD_03_3	TIER 3	MC	28	0.77	0.49	Reading at Word Level
300009V	RD_03_3	TIER 4	CR - 1pt	29	0.15	0.24	Foundational-Reading at Word Level
300009N	RD_03_3	TIER 4	CR - 1pt	30	0.21	0.63	Foundational-Reading at Word Level

Test Map for Core Items on Grade 3 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121423A	RD_03_4	TIER 1	MC	1	0.86	0.34	Reading Literature
120785A	RD_03_4	TIER 1	MC	2	0.88	0.31	Reading Literature
120787A	RD_03_4	TIER 1	MC	3	0.83	0.36	Reading Literature
120786A	RD_03_4	TIER 1	MC	4	0.72	0.38	Reading Literature
121428A	RD_03_4	TIER 1	MC	5	0.88	0.34	Reading at Word Level
300001P	RD_03_4	TIER 2	CR - 2pts	6	0.66	0.39	Reading Informational Text
121545A	RD_03_4	TIER 2	MC	7	0.55	0.34	Reading Informational Text
114010A	RD_03_4	TIER 2	MC	8	0.73	0.28	Reading Informational Text
114011A	RD_03_4	TIER 2	MC	9	0.48	0.01	Reading Informational Text
121731B	RD_03_4	TIER 2	MC	10	0.35	0.18	Reading Informational Text
300002V	RD_03_4	TIER 2	CR - 1pt	11	0.38	0.34	Foundational-Reading at Word Level
300002N	RD_03_4	TIER 2	CR - 1pt	12	0.34	0.42	Foundational-Reading at Word Level
121194A	RD_03_4	TIER 2	MC	18	0.53	0.35	Reading Informational Text
117687A	RD_03_4	TIER 2	MC	19	0.82	0.43	Reading Informational Text
122070A	RD_03_4	TIER 2	MC	20	0.61	0.38	Reading Informational Text
117688B	RD_03_4	TIER 2	MC	21	0.48	0.15	Reading Informational Text
117686A	RD_03_4	TIER 2	MC	22	0.77	0.32	Reading at Word Level
300010P	RD_03_4	TIER 4	CR - 2pts	23	0.56	0.44	Reading Literature
113682A	RD_03_4	TIER 4	MC	24	0.65	0.34	Reading Literature
113681A	RD_03_4	TIER 4	MC	25	0.69	0.53	Reading Literature
113685A	RD_03_4	TIER 4	MC	26	0.66	0.44	Reading Literature
113683A	RD_03_4	TIER 4	MC	27	0.51	0.49	Reading at Word Level
300011V	RD_03_4	TIER 2	CR - 1pt	28	0.36	0.28	Foundational-Reading at Word Level
300011N	RD_03_4	TIER 2	CR - 1pt	29	0.20	0.71	Foundational-Reading at Word Level

Test Map for Core Items on Grade 4 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
116574A	RD_04_1	TIER 1	MC	1	0.79	0.34	Reading Literature
121279A	RD_04_1	TIER 1	MC	2	0.78	0.40	Reading Literature
121426A	RD_04_1	TIER 1	MC	3	0.76	0.42	Reading Literature
116576A	RD_04_1	TIER 1	MC	4	0.82	0.33	Reading Literature
116577A	RD_04_1	TIER 1	MC	5	0.82	0.25	Reading Literature
116575A	RD_04_1	TIER 1	MC	6	0.70	0.50	Reading at Word Level
114056A	RD_04_1	TIER 2	MC	7	0.64	0.44	Reading Informational Text
114053A	RD_04_1	TIER 2	MC	8	0.60	0.44	Reading Informational Text
400002P	RD_04_1	TIER 2	CR - 2pts	9	0.50	0.30	Reading Informational Text
114055A	RD_04_1	TIER 2	MC	10	0.42	0.22	Reading at Word Level
400003V	RD_04_1	TIER 2	CR - 1pt	11	0.41	0.34	Foundational-Reading at Word Level
400003N	RD_04_1	TIER 2	CR - 1pt	12	0.43	0.47	Foundational-Reading at Word Level
400004P	RD_04_1	TIER 3	CR - 2pts	13	0.55	0.13	Reading Literature
400005P	RD_04_1	TIER 3	CR - 2pts	14	0.57	0.35	Reading Literature
113280A	RD_04_1	TIER 3	MC	15	0.62	0.40	Reading Literature
113281A	RD_04_1	TIER 3	MC	16	0.55	0.34	Reading Literature
113283A	RD_04_1	TIER 3	MC	17	0.64	0.43	Reading at Word Level
117323A	RD_04_1	TIER 3	MC	23	0.46	0.14	Reading Informational Text
117324A	RD_04_1	TIER 3	MC	24	0.51	0.42	Reading Informational Text
400006P	RD_04_1	TIER 3	CR - 2pts	25	0.49	0.18	Reading Informational Text
117325A	RD_04_1	TIER 3	MC	26	0.41	0.30	Reading Informational Text
400007V	RD_04_1	TIER 3	CR - 1pt	27	0.42	0.47	Foundational-Reading at Word Level
400007N	RD_04_1	TIER 3	CR - 1pt	28	0.33	0.64	Foundational-Reading at Word Level

Test Map for Core Items on Grade 4 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
116574A	RD_04_2	TIER 1	MC	1	0.79	0.37	Reading Literature
121279A	RD_04_2	TIER 1	MC	2	0.78	0.42	Reading Literature
121426A	RD_04_2	TIER 1	MC	3	0.76	0.45	Reading Literature
116576A	RD_04_2	TIER 1	MC	4	0.82	0.33	Reading Literature
116577A	RD_04_2	TIER 1	MC	5	0.82	0.27	Reading Literature
116575A	RD_04_2	TIER 1	MC	6	0.70	0.49	Reading at Word Level
114056A	RD_04_2	TIER 2	MC	7	0.64	0.45	Reading Informational Text
114053A	RD_04_2	TIER 2	MC	8	0.60	0.46	Reading Informational Text
400002P	RD_04_2	TIER 2	CR - 2pts	9	0.50	0.30	Reading Informational Text
114055A	RD_04_2	TIER 2	MC	10	0.42	0.22	Reading at Word Level
400003V	RD_04_2	TIER 2	CR - 1pt	11	0.41	0.29	Foundational-Reading at Word Level
400003N	RD_04_2	TIER 2	CR - 1pt	12	0.43	0.45	Foundational-Reading at Word Level
400004P	RD_04_2	TIER 3	CR - 2pts	13	0.55	0.15	Reading Literature
400005P	RD_04_2	TIER 3	CR - 2pts	14	0.57	0.37	Reading Literature
113280A	RD_04_2	TIER 3	MC	15	0.62	0.39	Reading Literature
113281A	RD_04_2	TIER 3	MC	16	0.55	0.31	Reading Literature
113283A	RD_04_2	TIER 3	MC	17	0.64	0.42	Reading at Word Level
116605A	RD_04_2	TIER 3	MC	24	0.38	0.27	Reading Informational Text
116606A	RD_04_2	TIER 3	MC	25	0.45	0.08	Reading Informational Text
400010P	RD_04_2	TIER 3	CR - 2pts	26	0.50	0.21	Reading Informational Text
116607A	RD_04_2	TIER 3	MC	27	0.38	0.17	Reading Informational Text
400011V	RD_04_2	TIER 1	CR - 1pt	28	0.55	0.22	Foundational-Reading at Word Level
400011N	RD_04_2	TIER 1	CR - 1pt	29	0.25	0.26	Foundational-Reading at Word Level

Test Map for Core Items on Grade 4 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114056A	RD_04_3	TIER 2	MC	7	0.64	0.47	Reading Informational Text
114053A	RD_04_3	TIER 2	MC	8	0.60	0.41	Reading Informational Text
400002P	RD_04_3	TIER 2	CR - 2pts	9	0.50	0.31	Reading Informational Text
114055A	RD_04_3	TIER 2	MC	10	0.42	0.23	Reading at Word Level
400003V	RD_04_3	TIER 2	CR - 1pt	11	0.41	0.33	Foundational-Reading at Word Level
400003N	RD_04_3	TIER 2	CR - 1pt	12	0.43	0.51	Foundational-Reading at Word Level
400004P	RD_04_3	TIER 3	CR - 2pts	13	0.55	0.15	Reading Literature
400005P	RD_04_3	TIER 3	CR - 2pts	14	0.57	0.36	Reading Literature
113280A	RD_04_3	TIER 3	MC	15	0.62	0.36	Reading Literature
113281A	RD_04_3	TIER 3	MC	16	0.55	0.30	Reading Literature
113283A	RD_04_3	TIER 3	MC	17	0.64	0.42	Reading at Word Level
116632A	RD_04_3	TIER 1	MC	18	0.75	0.56	Reading Informational Text
116633A	RD_04_3	TIER 1	MC	19	0.86	0.41	Reading Informational Text
116634A	RD_04_3	TIER 1	MC	20	0.81	0.55	Reading Informational Text
116635B	RD_04_3	TIER 1	MC	21	0.71	0.53	Reading Informational Text
400012P	RD_04_3	TIER 3	CR - 2pts	22	0.51	0.60	Reading Literature
400013P	RD_04_3	TIER 3	CR - 2pts	23	0.63	0.28	Reading Literature
113092A	RD_04_3	TIER 3	MC	24	0.70	0.57	Reading Literature
113091A	RD_04_3	TIER 3	MC	25	0.57	0.51	Reading Literature
113093A	RD_04_3	TIER 3	MC	26	0.55	0.30	Reading at Word Level
400014V	RD_04_3	TIER 4	CR - 1pt	27	0.17	0.29	Foundational-Reading at Word Level
400014N	RD_04_3	TIER 4	CR - 1pt	28	0.35	0.69	Foundational-Reading at Word Level

Test Map for Core Items on Grade 4 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
116574A	RD_04_4	TIER 1	MC	1	0.79	0.36	Reading Literature
121279A	RD_04_4	TIER 1	MC	2	0.78	0.40	Reading Literature
121426A	RD_04_4	TIER 1	MC	3	0.76	0.43	Reading Literature
116576A	RD_04_4	TIER 1	MC	4	0.82	0.36	Reading Literature
116577A	RD_04_4	TIER 1	MC	5	0.82	0.29	Reading Literature
116575A	RD_04_4	TIER 1	MC	6	0.70	0.49	Reading at Word Level
114056A	RD_04_4	TIER 2	MC	7	0.64	0.45	Reading Informational Text
114053A	RD_04_4	TIER 2	MC	8	0.60	0.45	Reading Informational Text
400002P	RD_04_4	TIER 2	CR - 2pts	9	0.50	0.31	Reading Informational Text
114055A	RD_04_4	TIER 2	MC	10	0.42	0.22	Reading at Word Level
400003V	RD_04_4	TIER 2	CR - 1pt	11	0.41	0.34	Foundational-Reading at Word Level
400003N	RD_04_4	TIER 2	CR - 1pt	12	0.43	0.48	Foundational-Reading at Word Level
116618A	RD_04_4	TIER 2	MC	18	0.63	0.11	Reading Informational Text
116619A	RD_04_4	TIER 2	MC	19	0.48	0.19	Reading Informational Text
400015P	RD_04_4	TIER 2	CR - 2pts	20	0.53	0.51	Reading Informational Text
116620A	RD_04_4	TIER 2	MC	21	0.57	0.34	Reading Informational Text
400016P	RD_04_4	TIER 4	CR - 2pts	22	0.47	0.26	Reading Literature
400017P	RD_04_4	TIER 4	CR - 2pts	23	0.57	0.63	Reading Literature
113088A	RD_04_4	TIER 4	MC	24	0.54	0.46	Reading Literature
113087A	RD_04_4	TIER 4	MC	25	0.53	0.58	Reading Literature
113089A	RD_04_4	TIER 4	MC	26	0.56	0.51	Reading at Word Level
400018V	RD_04_4	TIER 2	CR - 1pt	27	0.38	0.34	Foundational-Reading at Word Level
400018N	RD_04_4	TIER 2	CR - 1pt	28	0.52	0.30	Foundational-Reading at Word Level

Test Map for Core Items on Grade 5 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121222A	RD_05_1	TIER 1	MC	1	0.79	0.26	Reading Literature
115055A	RD_05_1	TIER 1	MC	2	0.80	0.21	Reading Literature
115053A	RD_05_1	TIER 1	MC	3	0.73	0.32	Reading Literature
115054A	RD_05_1	TIER 1	MC	4	0.84	0.31	Reading Literature
115056A	RD_05_1	TIER 1	MC	5	0.72	0.29	Reading at Word Level
119972B	RD_05_1	TIER 2	MC	6	0.36	-0.03	Reading Informational Text
119973A	RD_05_1	TIER 2	MC	7	0.59	0.29	Reading Informational Text
500001P	RD_05_1	TIER 2	CR - 2pts	8	0.38	0.19	Reading Informational Text
121478B	RD_05_1	TIER 2	MC	9	0.51	0.29	Reading Informational Text
121479A	RD_05_1	TIER 2	MC	10	0.64	0.24	Reading Informational Text
500002P	RD_05_1	TIER 3	CR - 3pts	11	0.50	0.21	Reading Literature
119271A	RD_05_1	TIER 3	MC	12	0.63	0.23	Reading Literature
121564A	RD_05_1	TIER 3	MC	13	0.63	0.21	Reading Literature
121568A	RD_05_1	TIER 3	MC	14	0.53	0.25	Reading Literature
121571B	RD_05_1	TIER 3	MC	15	0.42	0.06	Reading Literature
121672A	RD_05_1	TIER 3	MC	16	0.70	0.31	Reading at Word Level
500003P	RD_05_1	TIER 3	CR - 2pts	23	0.47	0.13	Reading Informational Text
117110B	RD_05_1	TIER 3	MC	24	0.27	0.09	Reading Informational Text
117111A	RD_05_1	TIER 3	MC	25	0.57	0.41	Reading Informational Text
117112A	RD_05_1	TIER 3	MC	26	0.41	0.47	Reading at Word Level

Test Map for Core Items on Grade 5 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121222A	RD_05_2	TIER 1	MC	1	0.79	0.32	Reading Literature
115055A	RD_05_2	TIER 1	MC	2	0.80	0.23	Reading Literature
115053A	RD_05_2	TIER 1	MC	3	0.73	0.38	Reading Literature
115054A	RD_05_2	TIER 1	MC	4	0.84	0.30	Reading Literature
115056A	RD_05_2	TIER 1	MC	5	0.72	0.33	Reading at Word Level
119972B	RD_05_2	TIER 2	MC	6	0.36	-0.04	Reading Informational Text
119973A	RD_05_2	TIER 2	MC	7	0.59	0.33	Reading Informational Text
500001P	RD_05_2	TIER 2	CR - 2pts	8	0.38	0.20	Reading Informational Text
121478B	RD_05_2	TIER 2	MC	9	0.51	0.30	Reading Informational Text
121479A	RD_05_2	TIER 2	MC	10	0.64	0.19	Reading Informational Text
500002P	RD_05_2	TIER 3	CR - 3pts	11	0.50	0.26	Reading Literature
119271A	RD_05_2	TIER 3	MC	12	0.63	0.33	Reading Literature
121564A	RD_05_2	TIER 3	MC	13	0.63	0.22	Reading Literature
121568A	RD_05_2	TIER 3	MC	14	0.53	0.28	Reading Literature
121571B	RD_05_2	TIER 3	MC	15	0.42	0.10	Reading Literature
121672A	RD_05_2	TIER 3	MC	16	0.70	0.31	Reading at Word Level
500005P	RD_05_2	TIER 3	CR - 2pts	23	0.47	0.30	Reading Informational Text
121730A	RD_05_2	TIER 3	MC	24	0.55	0.23	Reading Informational Text
114322A	RD_05_2	TIER 3	MC	25	0.52	0.25	Reading Informational Text
114323A	RD_05_2	TIER 3	MC	26	0.72	0.19	Reading at Word Level

Test Map for Core Items on Grade 5 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
119972B	RD_05_3	TIER 2	MC	6	0.36	-0.06	Reading Informational Text
119973A	RD_05_3	TIER 2	MC	7	0.59	0.30	Reading Informational Text
500001P	RD_05_3	TIER 2	CR - 2pts	8	0.38	0.23	Reading Informational Text
121478B	RD_05_3	TIER 2	MC	9	0.51	0.35	Reading Informational Text
121479A	RD_05_3	TIER 2	MC	10	0.64	0.27	Reading Informational Text
500002P	RD_05_3	TIER 3	CR - 3pts	11	0.50	0.22	Reading Literature
119271A	RD_05_3	TIER 3	MC	12	0.63	0.34	Reading Literature
121564A	RD_05_3	TIER 3	MC	13	0.63	0.21	Reading Literature
121568A	RD_05_3	TIER 3	MC	14	0.53	0.25	Reading Literature
121571B	RD_05_3	TIER 3	MC	15	0.42	0.07	Reading Literature
121672A	RD_05_3	TIER 3	MC	16	0.70	0.35	Reading at Word Level
114338A	RD_05_3	TIER 1	MC	17	0.69	0.45	Reading Informational Text
114339B	RD_05_3	TIER 1	MC	18	0.80	0.34	Reading Informational Text
114340A	RD_05_3	TIER 1	MC	19	0.84	0.33	Reading Informational Text
114341A	RD_05_3	TIER 1	MC	20	0.62	0.43	Reading at Word Level
500006P	RD_05_3	TIER 3	CR - 3pts	21	0.47	0.50	Reading Literature
120909A	RD_05_3	TIER 3	MC	22	0.56	0.30	Reading Literature
120911A	RD_05_3	TIER 3	MC	23	0.47	0.36	Reading Literature
120910A	RD_05_3	TIER 3	MC	24	0.63	0.41	Reading Literature
117526A	RD_05_3	TIER 3	MC	25	0.51	0.49	Reading Literature
120913A	RD_05_3	TIER 3	MC	26	0.56	0.48	Reading at Word Level

Test Map for Core Items on Grade 5 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
121222A	RD_05_4	TIER 1	MC	1	0.79	0.32	Reading Literature
115055A	RD_05_4	TIER 1	MC	2	0.80	0.25	Reading Literature
115053A	RD_05_4	TIER 1	MC	3	0.73	0.38	Reading Literature
115054A	RD_05_4	TIER 1	MC	4	0.84	0.28	Reading Literature
115056A	RD_05_4	TIER 1	MC	5	0.72	0.34	Reading at Word Level
119972B	RD_05_4	TIER 2	MC	6	0.36	-0.09	Reading Informational Text
119973A	RD_05_4	TIER 2	MC	7	0.59	0.35	Reading Informational Text
500001P	RD_05_4	TIER 2	CR - 2pts	8	0.38	0.21	Reading Informational Text
121478B	RD_05_4	TIER 2	MC	9	0.51	0.34	Reading Informational Text
121479A	RD_05_4	TIER 2	MC	10	0.64	0.24	Reading Informational Text
500007P	RD_05_4	TIER 2	CR - 2pts	17	0.49	0.53	Reading Informational Text
114331A	RD_05_4	TIER 2	MC	18	0.46	0.22	Reading Informational Text
121735A	RD_05_4	TIER 2	MC	19	0.58	0.39	Reading Informational Text
114332A	RD_05_4	TIER 2	MC	20	0.61	0.36	Reading at Word Level
500008P	RD_05_4	TIER 4	CR - 3pts	21	0.51	0.39	Reading Literature
114074A	RD_05_4	TIER 4	MC	22	0.42	0.17	Reading Literature
114072A	RD_05_4	TIER 4	MC	23	0.69	0.40	Reading Literature
114073A	RD_05_4	TIER 4	MC	24	0.63	0.29	Reading Literature
114075A	RD_05_4	TIER 4	MC	25	0.38	0.38	Reading at Word Level

Test Map for Core Items on Grade 6 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
600001P	RD_06_1	TIER 2	CR - 3pts	6	0.62	0.36	Reading Literature
113536A	RD_06_1	TIER 2	MC	7	0.51	0.31	Reading Literature
121775A	RD_06_1	TIER 2	MC	8	0.63	0.22	Reading Literature
113533A	RD_06_1	TIER 2	MC	9	0.70	0.36	Reading at Word Level
600002P	RD_06_1	TIER 3	CR - 2pts	10	0.50	0.20	Reading Informational Text
121521A	RD_06_1	TIER 3	MC	11	0.53	0.24	Reading Informational Text
121522B	RD_06_1	TIER 3	MC	12	0.37	0.20	Reading Informational Text
121529B	RD_06_1	TIER 3	MC	13	0.49	0.19	Reading Informational Text
115183A	RD_06_1	TIER 3	MC	14	0.61	0.28	Reading at Word Level
120042A	RD_06_1	TIER 1	MC	15	0.90	0.45	Reading Informational Text
121373A	RD_06_1	TIER 1	MC	16	0.70	0.42	Reading Informational Text
121375A	RD_06_1	TIER 1	MC	17	0.75	0.35	Reading at Word Level
120043A	RD_06_1	TIER 1	MC	18	0.89	0.32	Reading Informational Text
120044A	RD_06_1	TIER 1	MC	19	0.78	0.36	Reading Informational Text
121374A	RD_06_1	TIER 1	MC	20	0.72	0.48	Reading Informational Text
600003P	RD_06_1	TIER 3	CR - 3pts	21	0.54	0.47	Reading Literature
113612A	RD_06_1	TIER 3	MC	22	0.55	0.37	Reading Literature
113611A	RD_06_1	TIER 3	MC	23	0.63	0.51	Reading Literature
115947A	RD_06_1	TIER 3	MC	24	0.59	0.28	Reading at Word Level

Test Map for Core Items on Grade 6 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114439A	RD_06_2	TIER 1	MC	1	0.85	0.34	Reading Informational Text
121327A	RD_06_2	TIER 1	MC	2	0.87	0.37	Reading Informational Text
121328A	RD_06_2	TIER 1	MC	3	0.86	0.39	Reading Informational Text
121329A	RD_06_2	TIER 1	MC	4	0.89	0.32	Reading Informational Text
114441B	RD_06_2	TIER 1	MC	5	0.88	0.35	Reading at Word Level
600001P	RD_06_2	TIER 2	CR - 3pts	6	0.62	0.44	Reading Literature
113536A	RD_06_2	TIER 2	MC	7	0.51	0.34	Reading Literature
121775A	RD_06_2	TIER 2	MC	8	0.63	0.25	Reading Literature
113533A	RD_06_2	TIER 2	MC	9	0.70	0.40	Reading at Word Level
600004P	RD_06_2	TIER 2	CR - 3pts	15	0.42	0.48	Reading Literature
115502A	RD_06_2	TIER 2	MC	16	0.43	0.21	Reading Literature
115501A	RD_06_2	TIER 2	MC	17	0.69	0.58	Reading Literature
115504A	RD_06_2	TIER 2	MC	18	0.71	0.36	Reading at Word Level
120011B	RD_06_2	TIER 3	MC	19	0.32	0.03	Reading Informational Text
120012A	RD_06_2	TIER 3	MC	20	0.43	0.18	Reading Informational Text
120014A	RD_06_2	TIER 3	MC	21	0.50	0.25	Reading Informational Text
120013B	RD_06_2	TIER 3	MC	22	0.26	0.17	Reading Informational Text
121358A	RD_06_2	TIER 3	MC	23	0.56	0.49	Reading Informational Text
121359A	RD_06_2	TIER 3	MC	24	0.61	0.33	Reading at Word Level

Test Map for Core Items on Grade 6 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
600001P	RD_06_3	TIER 2	CR - 3pts	6	0.62	0.37	Reading Literature
113536A	RD_06_3	TIER 2	MC	7	0.51	0.27	Reading Literature
121775A	RD_06_3	TIER 2	MC	8	0.63	0.18	Reading Literature
113533A	RD_06_3	TIER 2	MC	9	0.70	0.35	Reading at Word Level
600002P	RD_06_3	TIER 3	CR - 2pts	10	0.50	0.21	Reading Informational Text
121521A	RD_06_3	TIER 3	MC	11	0.53	0.27	Reading Informational Text
121522B	RD_06_3	TIER 3	MC	12	0.37	0.23	Reading Informational Text
121529B	RD_06_3	TIER 3	MC	13	0.49	0.22	Reading Informational Text
115183A	RD_06_3	TIER 3	MC	14	0.61	0.24	Reading at Word Level
120389A	RD_06_3	TIER 1	MC	15	0.84	0.46	Reading Informational Text
120390B	RD_06_3	TIER 1	MC	16	0.82	0.42	Reading Informational Text
121482A	RD_06_3	TIER 1	MC	17	0.77	0.48	Reading Informational Text
121483A	RD_06_3	TIER 1	MC	18	0.69	0.56	Reading at Word Level
120391A	RD_06_3	TIER 1	MC	19	0.78	0.44	Reading Informational Text
120392A	RD_06_3	TIER 1	MC	20	0.85	0.38	Reading Informational Text
600005P	RD_06_3	TIER 3	CR - 3pts	21	0.44	0.40	Reading Literature
114365A	RD_06_3	TIER 3	MC	22	0.48	0.23	Reading Literature
114362A	RD_06_3	TIER 3	MC	23	0.56	0.42	Reading Literature
114364A	RD_06_3	TIER 3	MC	24	0.68	0.26	Reading at Word Level

Test Map for Core Items on Grade 6 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114439A	RD_06_4	TIER 1	MC	1	0.85	0.33	Reading Informational Text
121327A	RD_06_4	TIER 1	MC	2	0.87	0.39	Reading Informational Text
121328A	RD_06_4	TIER 1	MC	3	0.86	0.37	Reading Informational Text
121329A	RD_06_4	TIER 1	MC	4	0.89	0.31	Reading Informational Text
114441B	RD_06_4	TIER 1	MC	5	0.88	0.36	Reading at Word Level
600001P	RD_06_4	TIER 2	CR - 3pts	6	0.62	0.46	Reading Literature
113536A	RD_06_4	TIER 2	MC	7	0.51	0.27	Reading Literature
121775A	RD_06_4	TIER 2	MC	8	0.63	0.24	Reading Literature
113533A	RD_06_4	TIER 2	MC	9	0.70	0.38	Reading at Word Level
600006P	RD_06_4	TIER 2	CR - 3pts	15	0.64	0.49	Reading Literature
114382A	RD_06_4	TIER 2	MC	16	0.76	0.34	Reading Literature
114380A	RD_06_4	TIER 2	MC	17	0.72	0.57	Reading Literature
114381A	RD_06_4	TIER 2	MC	18	0.71	0.34	Reading at Word Level
119997B	RD_06_4	TIER 4	MC	19	0.35	0.06	Reading Informational Text
119998A	RD_06_4	TIER 4	MC	20	0.57	0.02	Reading Informational Text
119999A	RD_06_4	TIER 4	MC	21	0.37	0.30	Reading Informational Text
120000A	RD_06_4	TIER 4	MC	22	0.46	-0.11	Reading Informational Text
121349B	RD_06_4	TIER 4	MC	23	0.27	0.11	Reading Informational Text
121353A	RD_06_4	TIER 4	MC	24	0.55	0.36	Reading at Word Level

Test Map for Core Items on Grade 7 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114594A	RD_07_1	TIER 2	MC	5	0.64	0.24	Reading Literature
700001P	RD_07_1	TIER 2	CR - 2pts	6	0.64	0.31	Reading Literature
700002P	RD_07_1	TIER 2	CR - 2pts	7	0.47	0.19	Reading Literature
114596A	RD_07_1	TIER 2	MC	8	0.64	0.31	Reading at Word Level
700003P	RD_07_1	TIER 3	CR - 2pts	9	0.52	0.13	Reading Informational Text
121347A	RD_07_1	TIER 3	MC	10	0.52	0.17	Reading Informational Text
121343A	RD_07_1	TIER 3	MC	11	0.47	0.08	Reading Informational Text
115373A	RD_07_1	TIER 3	MC	12	0.53	0.16	Reading at Word Level
120098A	RD_07_1	TIER 1	MC	13	0.85	0.48	Reading Informational Text
121493A	RD_07_1	TIER 1	MC	14	0.78	0.56	Reading Informational Text
121497A	RD_07_1	TIER 1	MC	15	0.70	0.36	Reading Informational Text
121512A	RD_07_1	TIER 1	MC	16	0.77	0.54	Reading at Word Level
120099A	RD_07_1	TIER 1	MC	17	0.80	0.50	Reading Informational Text
121501A	RD_07_1	TIER 1	MC	18	0.75	0.53	Reading Informational Text
121505A	RD_07_1	TIER 1	MC	19	0.78	0.55	Reading Informational Text
121509A	RD_07_1	TIER 1	MC	20	0.75	0.53	Reading Informational Text
115431A	RD_07_1	TIER 3	MC	21	0.57	0.62	Reading Literature
700004P	RD_07_1	TIER 3	CR - 2pts	22	0.56	0.45	Reading Literature
700005P	RD_07_1	TIER 3	CR - 2pts	23	0.58	0.48	Reading Literature
115432A	RD_07_1	TIER 3	MC	24	0.43	0.31	Reading at Word Level

Test Map for Core Items on Grade 7 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_2	TIER 1	MC	1	0.81	0.38	Reading Informational Text
122038A	RD_07_2	TIER 1	MC	2	0.80	0.33	Reading Informational Text
122037A	RD_07_2	TIER 1	MC	3	0.81	0.30	Reading Informational Text
113802B	RD_07_2	TIER 1	MC	4	0.84	0.33	Reading at Word Level
114594A	RD_07_2	TIER 2	MC	5	0.64	0.30	Reading Literature
700001P	RD_07_2	TIER 2	CR - 2pts	6	0.64	0.33	Reading Literature
700002P	RD_07_2	TIER 2	CR - 2pts	7	0.47	0.20	Reading Literature
114596A	RD_07_2	TIER 2	MC	8	0.64	0.37	Reading at Word Level
114646A	RD_07_2	TIER 2	MC	13	0.79	0.50	Reading Literature
700006P	RD_07_2	TIER 2	CR - 2pts	14	0.70	0.62	Reading Literature
700007P	RD_07_2	TIER 2	CR - 2pts	15	0.56	0.56	Reading Literature
114645A	RD_07_2	TIER 2	MC	16	0.50	0.53	Reading at Word Level
120072A	RD_07_2	TIER 3	MC	17	0.53	0.15	Reading Informational Text
120073A	RD_07_2	TIER 3	MC	18	0.58	0.30	Reading Informational Text
700008P	RD_07_2	TIER 3	CR - 2pts	19	0.50	0.17	Reading Informational Text
121495A	RD_07_2	TIER 3	MC	20	0.44	0.23	Reading Informational Text
700009P	RD_07_2	TIER 3	CR - 2pts	21	0.41	0.09	Reading Informational Text
121503A	RD_07_2	TIER 3	MC	22	0.40	0.00	Reading Informational Text
121507A	RD_07_2	TIER 3	MC	23	0.49	0.30	Reading Informational Text
121510A	RD_07_2	TIER 3	MC	24	0.58	0.42	Reading at Word Level

Test Map for Core Items on Grade 7 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114594A	RD_07_3	TIER 2	MC	5	0.64	0.29	Reading Literature
700001P	RD_07_3	TIER 2	CR - 2pts	6	0.64	0.36	Reading Literature
700002P	RD_07_3	TIER 2	CR - 2pts	7	0.47	0.17	Reading Literature
114596A	RD_07_3	TIER 2	MC	8	0.64	0.37	Reading at Word Level
700003P	RD_07_3	TIER 3	CR - 2pts	9	0.52	0.15	Reading Informational Text
121347A	RD_07_3	TIER 3	MC	10	0.52	0.20	Reading Informational Text
121343A	RD_07_3	TIER 3	MC	11	0.47	0.11	Reading Informational Text
115373A	RD_07_3	TIER 3	MC	12	0.53	0.20	Reading at Word Level
120465A	RD_07_3	TIER 1	MC	13	0.90	0.35	Reading Informational Text
121421A	RD_07_3	TIER 1	MC	14	0.76	0.51	Reading Informational Text
121422A	RD_07_3	TIER 1	MC	15	0.74	0.30	Reading Informational Text
121437A	RD_07_3	TIER 1	MC	16	0.62	0.23	Reading at Word Level
120467A	RD_07_3	TIER 1	MC	17	0.63	0.04	Reading Informational Text
121425A	RD_07_3	TIER 1	MC	18	0.86	0.35	Reading Informational Text
121427A	RD_07_3	TIER 1	MC	19	0.83	0.32	Reading Informational Text
121435A	RD_07_3	TIER 1	MC	20	0.69	0.40	Reading Informational Text
114633A	RD_07_3	TIER 3	MC	21	0.74	0.45	Reading Literature
700010P	RD_07_3	TIER 3	CR - 2pts	22	0.47	0.41	Reading Literature
700011P	RD_07_3	TIER 3	CR - 2pts	23	0.63	0.52	Reading Literature
114632A	RD_07_3	TIER 3	MC	24	0.45	0.41	Reading at Word Level

Test Map for Core Items on Grade 7 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_4	TIER 1	MC	1	0.81	0.35	Reading Informational Text
122038A	RD_07_4	TIER 1	MC	2	0.80	0.34	Reading Informational Text
122037A	RD_07_4	TIER 1	MC	3	0.81	0.34	Reading Informational Text
113802B	RD_07_4	TIER 1	MC	4	0.84	0.33	Reading at Word Level
114594A	RD_07_4	TIER 2	MC	5	0.64	0.31	Reading Literature
700001P	RD_07_4	TIER 2	CR - 2pts	6	0.64	0.36	Reading Literature
700002P	RD_07_4	TIER 2	CR - 2pts	7	0.47	0.22	Reading Literature
114596A	RD_07_4	TIER 2	MC	8	0.64	0.40	Reading at Word Level
114482A	RD_07_4	TIER 2	MC	13	0.69	0.33	Reading Literature
700012P	RD_07_4	TIER 2	CR - 2pts	14	0.63	0.27	Reading Literature
700013P	RD_07_4	TIER 2	CR - 2pts	15	0.53	0.31	Reading Literature
114481A	RD_07_4	TIER 2	MC	16	0.49	0.29	Reading at Word Level
120060A	RD_07_4	TIER 4	MC	17	0.44	0.28	Reading Informational Text
120061A	RD_07_4	TIER 4	MC	18	0.53	0.29	Reading Informational Text
700014P	RD_07_4	TIER 4	CR - 2pts	19	0.47	0.34	Reading Informational Text
121494A	RD_07_4	TIER 4	MC	20	0.37	0.13	Reading Informational Text
121506A	RD_07_4	TIER 4	MC	21	0.36	0.16	Reading Informational Text
700015P	RD_07_4	TIER 4	CR - 2pts	22	0.45	0.11	Reading Informational Text
121502A	RD_07_4	TIER 4	MC	23	0.45	0.21	Reading Informational Text
121513A	RD_07_4	TIER 4	MC	24	0.53	0.28	Reading at Word Level

Test Map for Core Items on Grade 8 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114688A	RD_08_1	TIER 2	MC	5	0.55	0.15	Reading Literature
800001P	RD_08_1	TIER 2	CR - 2pts	6	0.63	0.27	Reading Literature
800002P	RD_08_1	TIER 2	CR - 2pts	7	0.74	0.26	Reading Literature
114687A	RD_08_1	TIER 2	MC	8	0.64	0.28	Reading at Word Level
114229A	RD_08_1	TIER 3	MC	9	0.47	0.09	Reading Informational Text
114230B	RD_08_1	TIER 3	MC	10	0.60	0.22	Reading Informational Text
800003P	RD_08_1	TIER 3	CR - 2pts	11	0.51	0.25	Reading Informational Text
114228A	RD_08_1	TIER 3	MC	12	0.49	0.20	Reading at Word Level
121030A	RD_08_1	TIER 1	MC	13	0.87	0.39	Reading Informational Text
121033B	RD_08_1	TIER 1	MC	14	0.61	0.05	Reading Informational Text
121031A	RD_08_1	TIER 1	MC	15	0.64	0.31	Reading Informational Text
121032A	RD_08_1	TIER 1	MC	16	0.86	0.30	Reading Informational Text
121108A	RD_08_1	TIER 1	MC	17	0.80	0.27	Reading at Word Level
121106B	RD_08_1	TIER 1	MC	18	0.64	0.27	Reading Informational Text
121105A	RD_08_1	TIER 1	MC	19	0.75	0.43	Reading Informational Text
121107A	RD_08_1	TIER 1	MC	20	0.80	0.43	Reading Informational Text
114876A	RD_08_1	TIER 3	MC	21	0.71	0.33	Reading Literature
800004P	RD_08_1	TIER 3	CR - 2pts	22	0.43	0.30	Reading Literature
800005P	RD_08_1	TIER 3	CR - 2pts	23	0.44	0.31	Reading Literature
114879A	RD_08_1	TIER 3	MC	24	0.68	0.38	Reading at Word Level

Test Map for Core Items on Grade 8 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_2	TIER 1	MC	1	0.84	0.28	Reading Informational Text
121729B	RD_08_2	TIER 1	MC	2	0.52	0.05	Reading Informational Text
121761A	RD_08_2	TIER 1	MC	3	0.71	0.13	Reading Informational Text
113425A	RD_08_2	TIER 1	MC	4	0.85	0.21	Reading at Word Level
114688A	RD_08_2	TIER 2	MC	5	0.55	0.23	Reading Literature
800001P	RD_08_2	TIER 2	CR - 2pts	6	0.63	0.27	Reading Literature
800002P	RD_08_2	TIER 2	CR - 2pts	7	0.74	0.30	Reading Literature
114687A	RD_08_2	TIER 2	MC	8	0.64	0.30	Reading at Word Level
118798A	RD_08_2	TIER 2	MC	13	0.80	0.26	Reading Informational Text
118800B	RD_08_2	TIER 2	MC	14	0.49	0.44	Reading Informational Text
800006P	RD_08_2	TIER 2	CR - 2pts	15	0.56	0.50	Reading Informational Text
118801A	RD_08_2	TIER 2	MC	16	0.50	0.15	Reading Informational Text
121206A	RD_08_2	TIER 2	MC	17	0.78	0.38	Reading at Word Level
800007P	RD_08_2	TIER 2	CR - 2pts	18	0.50	0.56	Reading Informational Text
121204B	RD_08_2	TIER 2	MC	19	0.54	0.46	Reading Informational Text
121205A	RD_08_2	TIER 2	MC	20	0.65	0.31	Reading Informational Text
115274A	RD_08_2	TIER 3	MC	21	0.82	0.25	Reading Literature
800008P	RD_08_2	TIER 3	CR - 2pts	22	0.53	0.35	Reading Literature
800009P	RD_08_2	TIER 3	CR - 2pts	23	0.50	0.25	Reading Literature
115272A	RD_08_2	TIER 3	MC	24	0.57	0.53	Reading at Word Level

Test Map for Core Items on Grade 8 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
114688A	RD_08_3	TIER 2	MC	5	0.55	0.25	Reading Literature
800001P	RD_08_3	TIER 2	CR - 2pts	6	0.63	0.31	Reading Literature
800002P	RD_08_3	TIER 2	CR - 2pts	7	0.74	0.31	Reading Literature
114687A	RD_08_3	TIER 2	MC	8	0.64	0.30	Reading at Word Level
114229A	RD_08_3	TIER 3	MC	9	0.47	0.18	Reading Informational Text
114230B	RD_08_3	TIER 3	MC	10	0.60	0.24	Reading Informational Text
800003P	RD_08_3	TIER 3	CR - 2pts	11	0.51	0.28	Reading Informational Text
114228A	RD_08_3	TIER 3	MC	12	0.49	0.22	Reading at Word Level
114798A	RD_08_3	TIER 1	MC	13	0.87	0.34	Reading Literature
114799A	RD_08_3	TIER 1	MC	14	0.89	0.31	Reading Literature
114797A	RD_08_3	TIER 1	MC	15	0.89	0.33	Reading Literature
114796A	RD_08_3	TIER 1	MC	16	0.69	0.37	Reading at Word Level
121040A	RD_08_3	TIER 3	MC	17	0.39	0.04	Reading Informational Text
800010P	RD_08_3	TIER 3	CR - 2pts	18	0.57	0.53	Reading Informational Text
121043B	RD_08_3	TIER 3	MC	19	0.41	0.09	Reading Informational Text
121145A	RD_08_3	TIER 3	MC	20	0.45	0.21	Reading Informational Text
800011P	RD_08_3	TIER 3	CR - 2pts	21	0.51	0.49	Reading Informational Text
121148B	RD_08_3	TIER 3	MC	22	0.43	0.19	Reading Informational Text
121149A	RD_08_3	TIER 3	MC	23	0.52	0.09	Reading Informational Text
121151B	RD_08_3	TIER 3	MC	24	0.43	0.36	Reading at Word Level

Test Map for Core Items on Grade 8 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_4	TIER 1	MC	1	0.84	0.25	Reading Informational Text
121729B	RD_08_4	TIER 1	MC	2	0.52	0.05	Reading Informational Text
121761A	RD_08_4	TIER 1	MC	3	0.71	0.15	Reading Informational Text
113425A	RD_08_4	TIER 1	MC	4	0.85	0.24	Reading at Word Level
114688A	RD_08_4	TIER 2	MC	5	0.55	0.20	Reading Literature
800001P	RD_08_4	TIER 2	CR - 2pts	6	0.63	0.32	Reading Literature
800002P	RD_08_4	TIER 2	CR - 2pts	7	0.74	0.32	Reading Literature
114687A	RD_08_4	TIER 2	MC	8	0.64	0.29	Reading at Word Level
115286A	RD_08_4	TIER 2	MC	13	0.64	0.28	Reading Literature
800012P	RD_08_4	TIER 2	CR - 2pts	14	0.76	0.63	Reading Literature
800013P	RD_08_4	TIER 2	CR - 2pts	15	0.67	0.55	Reading Literature
115285A	RD_08_4	TIER 2	MC	16	0.58	0.44	Reading at Word Level
121036A	RD_08_4	TIER 4	MC	17	0.47	0.18	Reading Informational Text
800014P	RD_08_4	TIER 4	CR - 2pts	18	0.48	0.40	Reading Informational Text
121039B	RD_08_4	TIER 4	MC	19	0.47	0.17	Reading Informational Text
121160A	RD_08_4	TIER 4	MC	20	0.29	0.07	Reading Informational Text
800015P	RD_08_4	TIER 4	CR - 2pts	21	0.39	0.41	Reading Informational Text
121164B	RD_08_4	TIER 4	MC	22	0.43	0.27	Reading Informational Text
121165A	RD_08_4	TIER 4	MC	23	0.52	0.04	Reading Informational Text
121166B	RD_08_4	TIER 4	MC	24	0.38	0.44	Reading at Word Level

Test Map for Core Items on Grade 11 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_1	TIER 1	MC	1	0.81	0.25	Reading Informational Text
121227A	RD_11_1	TIER 1	MC	2	0.85	0.31	Reading Informational Text
120149A	RD_11_1	TIER 1	MC	3	0.74	0.34	Reading Informational Text
121230A	RD_11_1	TIER 1	MC	4	0.82	0.32	Reading at Word Level
121228A	RD_11_1	TIER 1	MC	5	0.90	0.24	Reading Informational Text
121229A	RD_11_1	TIER 1	MC	6	0.71	0.28	Reading Informational Text
120148B	RD_11_1	TIER 1	MC	7	0.87	0.27	Reading Informational Text
120150A	RD_11_1	TIER 1	MC	8	0.70	0.23	Reading Informational Text
110001P	RD_11_1	TIER 2	CR - 2pts	9	0.64	0.42	Reading Literature
119081A	RD_11_1	TIER 2	MC	10	0.75	0.34	Reading Literature
119080A	RD_11_1	TIER 2	MC	11	0.71	0.33	Reading Literature
119079A	RD_11_1	TIER 2	MC	12	0.68	0.41	Reading at Word Level
121065A	RD_11_1	TIER 3	MC	13	0.37	0.08	Reading Informational Text
110003P	RD_11_1	TIER 3	CR - 2pts	14	0.34	0.10	Reading Informational Text
121130A	RD_11_1	TIER 3	MC	15	0.49	0.17	Reading Informational Text
117168A	RD_11_1	TIER 3	MC	16	0.63	0.36	Reading Informational Text
117167A	RD_11_1	TIER 3	MC	17	0.61	0.30	Reading at Word Level
116351A	RD_11_1	TIER 1	MC	18	0.89	0.42	Reading Literature
116348A	RD_11_1	TIER 1	MC	19	0.85	0.45	Reading Literature
116349A	RD_11_1	TIER 1	MC	20	0.78	0.53	Reading Literature
116350A	RD_11_1	TIER 1	MC	21	0.82	0.50	Reading at Word Level

Test Map for Core Items on Grade 11 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_2	TIER 1	MC	1	0.81	0.32	Reading Informational Text
121227A	RD_11_2	TIER 1	MC	2	0.85	0.33	Reading Informational Text
120149A	RD_11_2	TIER 1	MC	3	0.74	0.34	Reading Informational Text
121230A	RD_11_2	TIER 1	MC	4	0.82	0.33	Reading at Word Level
121228A	RD_11_2	TIER 1	MC	5	0.90	0.27	Reading Informational Text
121229A	RD_11_2	TIER 1	MC	6	0.71	0.26	Reading Informational Text
120148B	RD_11_2	TIER 1	MC	7	0.87	0.28	Reading Informational Text
120150A	RD_11_2	TIER 1	MC	8	0.70	0.25	Reading Informational Text
110001P	RD_11_2	TIER 2	CR - 2pts	9	0.64	0.44	Reading Literature
119081A	RD_11_2	TIER 2	MC	10	0.75	0.39	Reading Literature
119080A	RD_11_2	TIER 2	MC	11	0.71	0.34	Reading Literature
119079A	RD_11_2	TIER 2	MC	12	0.68	0.40	Reading at Word Level
121065A	RD_11_2	TIER 3	MC	13	0.37	0.06	Reading Informational Text
110003P	RD_11_2	TIER 3	CR - 2pts	14	0.34	0.04	Reading Informational Text
121130A	RD_11_2	TIER 3	MC	15	0.49	0.18	Reading Informational Text
117168A	RD_11_2	TIER 3	MC	16	0.63	0.36	Reading Informational Text
117167A	RD_11_2	TIER 3	MC	17	0.61	0.31	Reading at Word Level
110010P	RD_11_2	TIER 3	CR - 2pts	23	0.49	0.29	Reading Literature
116324A	RD_11_2	TIER 3	MC	24	0.73	0.47	Reading Literature
116323A	RD_11_2	TIER 3	MC	25	0.66	0.61	Reading Literature
116325A	RD_11_2	TIER 3	MC	26	0.48	0.30	Reading at Word Level

Test Map for Core Items on Grade 11 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_3	TIER 1	MC	1	0.81	0.30	Reading Informational Text
121227A	RD_11_3	TIER 1	MC	2	0.85	0.30	Reading Informational Text
120149A	RD_11_3	TIER 1	MC	3	0.74	0.36	Reading Informational Text
121230A	RD_11_3	TIER 1	MC	4	0.82	0.36	Reading at Word Level
121228A	RD_11_3	TIER 1	MC	5	0.90	0.30	Reading Informational Text
121229A	RD_11_3	TIER 1	MC	6	0.71	0.30	Reading Informational Text
120148B	RD_11_3	TIER 1	MC	7	0.87	0.28	Reading Informational Text
120150A	RD_11_3	TIER 1	MC	8	0.70	0.22	Reading Informational Text
110001P	RD_11_3	TIER 2	CR - 2pts	9	0.64	0.43	Reading Literature
119081A	RD_11_3	TIER 2	MC	10	0.75	0.41	Reading Literature
119080A	RD_11_3	TIER 2	MC	11	0.71	0.36	Reading Literature
119079A	RD_11_3	TIER 2	MC	12	0.68	0.44	Reading at Word Level
121065A	RD_11_3	TIER 3	MC	13	0.37	0.03	Reading Informational Text
110003P	RD_11_3	TIER 3	CR - 2pts	14	0.34	0.03	Reading Informational Text
121130A	RD_11_3	TIER 3	MC	15	0.49	0.18	Reading Informational Text
117168A	RD_11_3	TIER 3	MC	16	0.63	0.40	Reading Informational Text
117167A	RD_11_3	TIER 3	MC	17	0.61	0.32	Reading at Word Level
110011P	RD_11_3	TIER 3	CR - 2pts	23	0.43	0.37	Reading Literature
113711A	RD_11_3	TIER 3	MC	24	0.53	0.24	Reading Literature
113712A	RD_11_3	TIER 3	MC	25	0.60	0.50	Reading Literature
121743A	RD_11_3	TIER 3	MC	26	0.60	0.54	Reading at Word Level

Test Map for Core Items on Grade 11 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_4	TIER 1	MC	1	0.81	0.32	Reading Informational Text
121227A	RD_11_4	TIER 1	MC	2	0.85	0.34	Reading Informational Text
120149A	RD_11_4	TIER 1	MC	3	0.74	0.32	Reading Informational Text
121230A	RD_11_4	TIER 1	MC	4	0.82	0.35	Reading at Word Level
121228A	RD_11_4	TIER 1	MC	5	0.90	0.26	Reading Informational Text
121229A	RD_11_4	TIER 1	MC	6	0.71	0.31	Reading Informational Text
120148B	RD_11_4	TIER 1	MC	7	0.87	0.29	Reading Informational Text
120150A	RD_11_4	TIER 1	MC	8	0.70	0.25	Reading Informational Text
110001P	RD_11_4	TIER 2	CR - 2pts	9	0.64	0.42	Reading Literature
119081A	RD_11_4	TIER 2	MC	10	0.75	0.41	Reading Literature
119080A	RD_11_4	TIER 2	MC	11	0.71	0.37	Reading Literature
119079A	RD_11_4	TIER 2	MC	12	0.68	0.42	Reading at Word Level
110012P	RD_11_4	TIER 2	CR - 2pts	18	0.56	0.53	Reading Literature
113727A	RD_11_4	TIER 2	MC	19	0.47	0.09	Reading Literature
113728A	RD_11_4	TIER 2	MC	20	0.76	0.46	Reading Literature
121746A	RD_11_4	TIER 2	MC	21	0.70	0.47	Reading at Word Level
110013P	RD_11_4	TIER 4	CR - 2pts	22	0.40	0.31	Reading Informational Text
110014P	RD_11_4	TIER 4	CR - 2pts	23	0.57	0.58	Reading Informational Text
110015P	RD_11_4	TIER 4	CR - 2pts	24	0.54	0.55	Reading Informational Text
114167A	RD_11_4	TIER 4	MC	25	0.61	0.43	Reading Informational Text
114169A	RD_11_4	TIER 4	MC	26	0.66	0.49	Reading at Word Level

National Center and State Collaborative

Response to NCSC Steering Committee Concerns

May 2015

100 EDUCATION WAY, DOVER, NH 03820 (800) 431-8901
WWW.MEASUREDPROGRESS.ORG

Table of Contents

Introduction 1
Classical Statistics Summary 4
Item Response Theory Results Summary 5
Concluding Remarks 9
Appendix A—Revised Test Map for Core Items

List of Tables

Table 1. Test Length: Reading 1
Table 2. Number of Points for Common and Unique Items: Reading 2
Table 3. Number of Points at Each Tier 3
Table 4. Classical Statistics for Reading: Means and Standard Deviations 4

List of Figures

Figure 1. Test Characteristic Curve for Grade 7 Reading 6
Figure 2. Test Information Function and Standard Error for Grade 7 Reading 6
Figure 3. Test Characteristic Curve for Grade 8 Reading 7
Figure 4. Test Information Function and Standard Error for Grade 8 Reading 7
Figure 5. Test Characteristic Curve For Grade 11 Reading 8
Figure 6. Test Information Function and Standard Error for Grade 11 Reading 8

Introduction

After the initial core item selection for the 2015 operational administration, the NCSC steering committee reviewed the *NCSC Initial Core Item List Report* and expressed some concerns especially about the statistical equivalence of the four forms within some grades for the reading tests. The purpose of this document is to report how Measured Progress addressed the concerns raised by the steering committee.

For the initial core item selection, all core item selections were made based entirely on ensuring the best possible content characteristics for each form because of the inherent limitations of the statistical evidence from the stand-alone field-tests. However, the steering committee was concerned that the forms for grades 7, 8, and 11 Reading were statistically less parallel in terms of their item response theory (IRT) characteristics (i.e., test characteristic curve [TCC], test information function [TIF], and standard error of measurement [SEM]) relative to other grade/content areas. To address this concern, Measured Progress updated the core item lists, without any content considerations, so that the forms would reflect more statistical similarity. The main differences from the initial selection were:

- Core item selections were made based on individual item-level statistics instead of the passage-level.
- All of the common items were selected to serve as core items.

We next present results describing the revised forms for grades 7, 8, and 11 reading. Table 1 below lays out the test length for each of the revised forms. Note that test length is defined as the maximum possible number of operationally scored points on each form. Moreover, Table 2 provides the breakdown of points depending on whether the items are "common" to *all* four forms within a particular grade or "unique" to a specific form. Additionally, in Table 3, the number of possible points at each tier is given for each form.

TABLE 1. TEST LENGTH: READING

Grade	Form 1	Form 2	Form 3	Form 4
7	21	21	21	19
8	21	21	25	21
11	27	23	24	24

** Test length was defined as the maximum raw score points examinees can obtain.*

TABLE 2. NUMBER OF POINTS FOR COMMON AND UNIQUE ITEMS: READING

Grade	Form 1		Form 2		Form 3		Form 4	
	Common	Unique	Common	Unique	Common	Unique	Common	Unique
7	15	6	15	6	15	6	15	4
8	15	6	15	6	15	10	15	6
11	19	8	19	4	19	5	19	5

TABLE 3. NUMBER OF POINTS AT EACH TIER

Grade	Form	Reading			
		Tier 1	Tier 2	Tier 3	Tier 4
7	1	4	6	11	0
	2	4	12	5	0
	3	4	6	11	0
	4	4	10	5	0
8	1	4	6	11	0
	2	4	6	11	0
	3	8	6	11	0
	4	4	12	5	0
11	1	8	5	14	0
	2	8	5	11	0
	3	8	5	11	0
	4	8	10	6	0

Classical Statistics Summary

In constructing the revised reading forms for grades 7, 8, and 11, Measured Progress ran analyses (i.e., classical statistics and item response theory [IRT] statistics) to examine the degree of equivalence of the forms. All analyses were run on the basis of pilot test item-level data from the fall of 2014 provided by CTB.

Presented below in Table 4, for grades 7, 8, and 11 reading are the means and standard deviations (in parentheses) for the p-values and item-total correlations over the final items selected for each revised form.

TABLE 4. CLASSICAL STATISTICS FOR READING: MEANS AND STANDARD DEVIATIONS

Grade	Statistic	Form 1	Form 2	Form 3	Form 4
7	p-value	.61 (.13)	.64 (.14)	.62 (.14)	.63 (.13)
	Item-total correlation	.30 (.14)	.34 (.15)	.31 (.12)	.28 (.08)
8	p-value	.61 (.13)	.62 (.13)	.63 (.16)	.64 (.12)
	Item-total correlation	.23 (.09)	.25 (.11)	.26 (.10)	.28 (.15)
11	p-value	.66 (.15)	.67 (.16)	.66 (.16)	.67 (.16)
	Item-total correlation	.31 (.11)	.31 (.13)	.32 (.13)	.32 (.13)

** Numbers in parenthesis indicate the standard deviation of the statistic.*

In terms of classical statistics, the similarity of the four revised forms within each grade/content with respect to difficulty and discrimination was notably improved as compared to the statistics reported for the initial content-driven forms (see Table 7 in *NCSC Initial Core Item List Report*). The differences presented in Table 4 are judged as small and quite acceptable, although it should be kept in mind that these values are based on data from a limited stand-alone field test and, thus, could turn out substantially different in a full-scale operational setting.

Item Response Theory Results Summary

Using the Rasch IRT item parameters calibrated by CTB, the test characteristic curve (TCC), test information function (TIF), and standard error of measurement (SEM) curves were built for each revised form.

Figures 1 through 6 present the TCCs, TIFs, and SEM curves for all the revised forms. Because the four forms for a given grade level had more than one maximum possible score, such differences make it difficult to use the TCC's and TIF's to compare the tests in regard to difficulty level and measurement precision. To make for a more fair comparison of the TCC's and TIF's, each TCC and TIF was multiplied, if needed, by a proportionality constant to show what the TCC would look like if it had the same maximum score as the form with the largest maximum score.

FIGURE 1. TEST CHARACTERISTIC CURVE FOR GRADE 7 READING

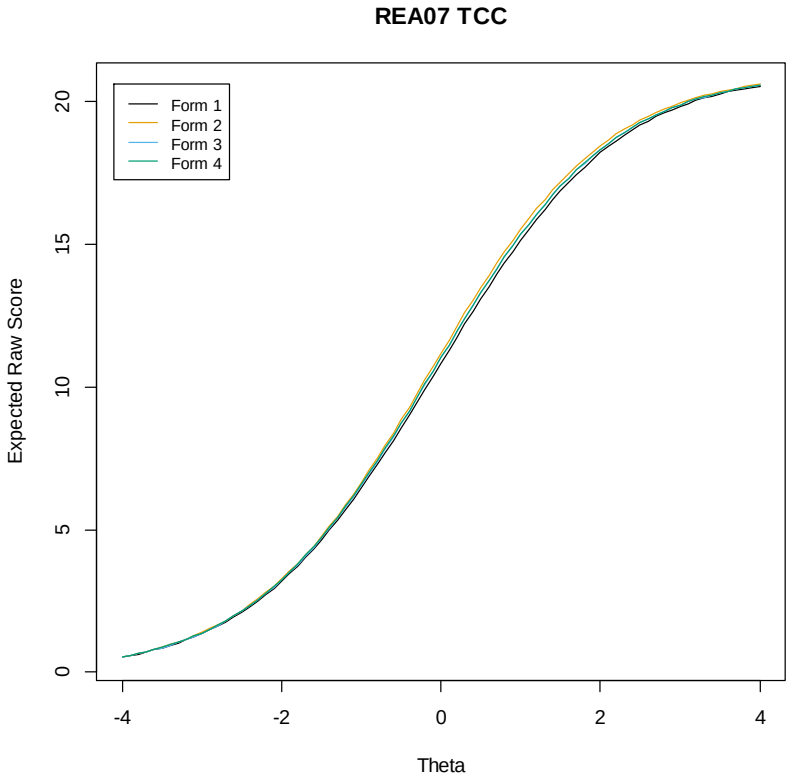


FIGURE 2. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 7 READING

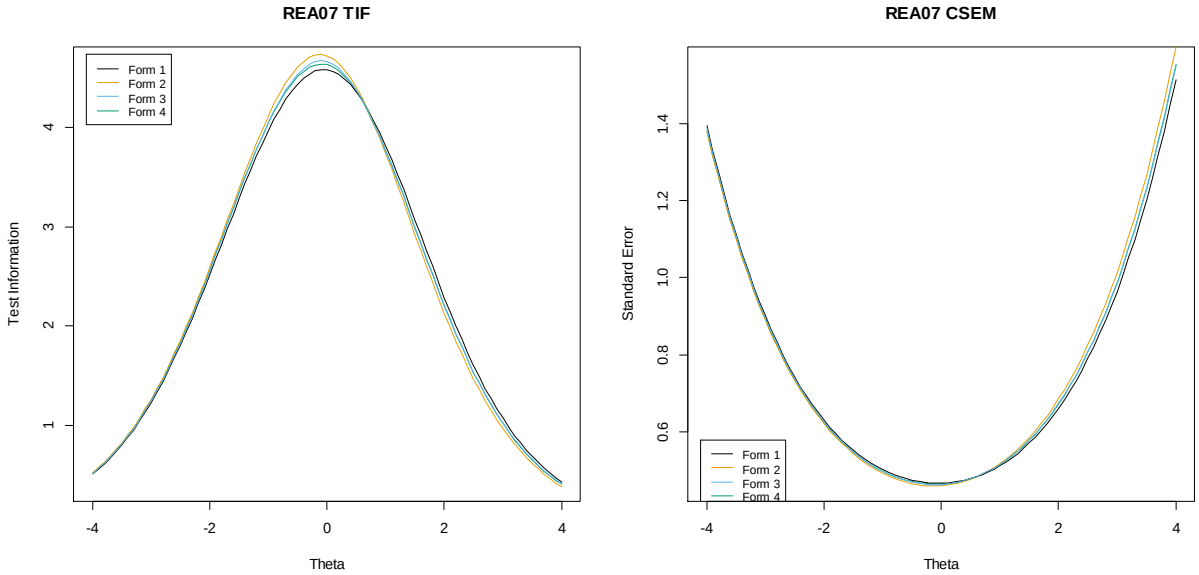


FIGURE 3. TEST CHARACTERISTIC CURVE FOR GRADE 8 READING

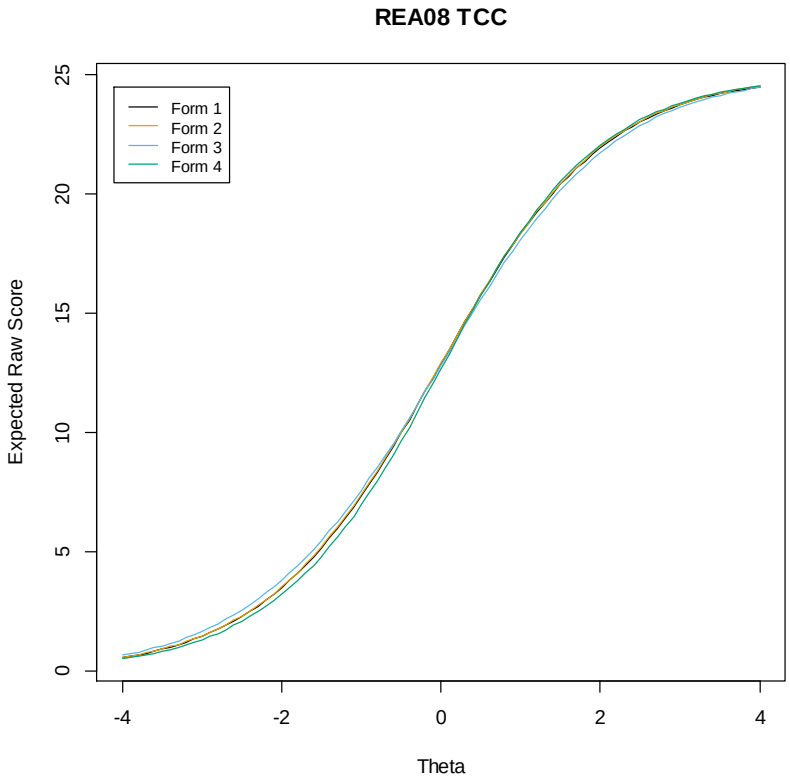


FIGURE 4. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 8 READING

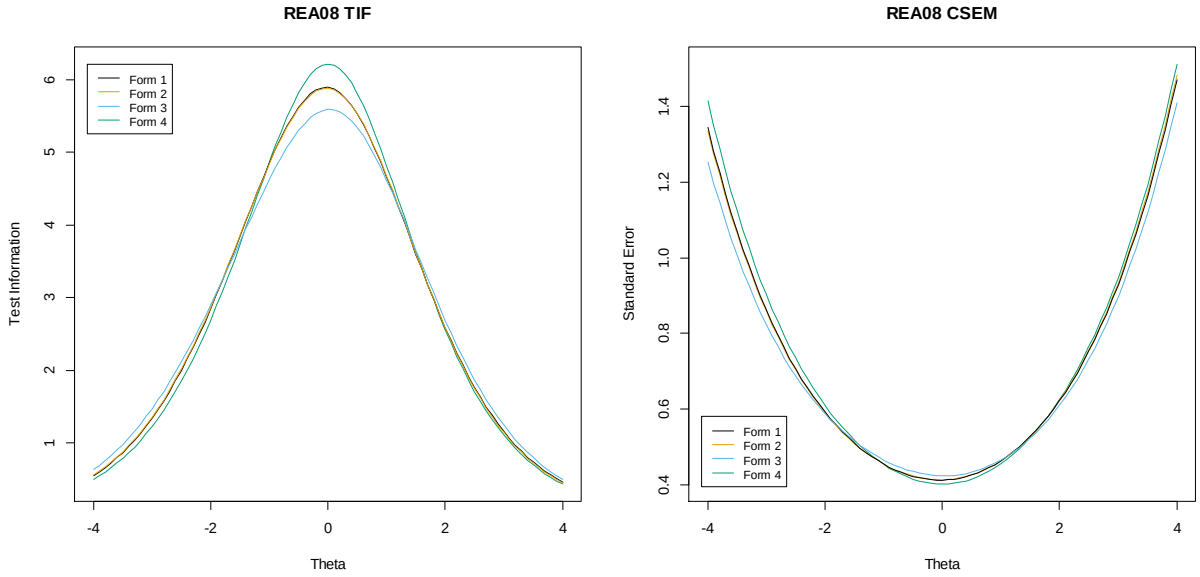


FIGURE 5. TEST CHARACTERISTIC CURVE FOR GRADE 11 READING

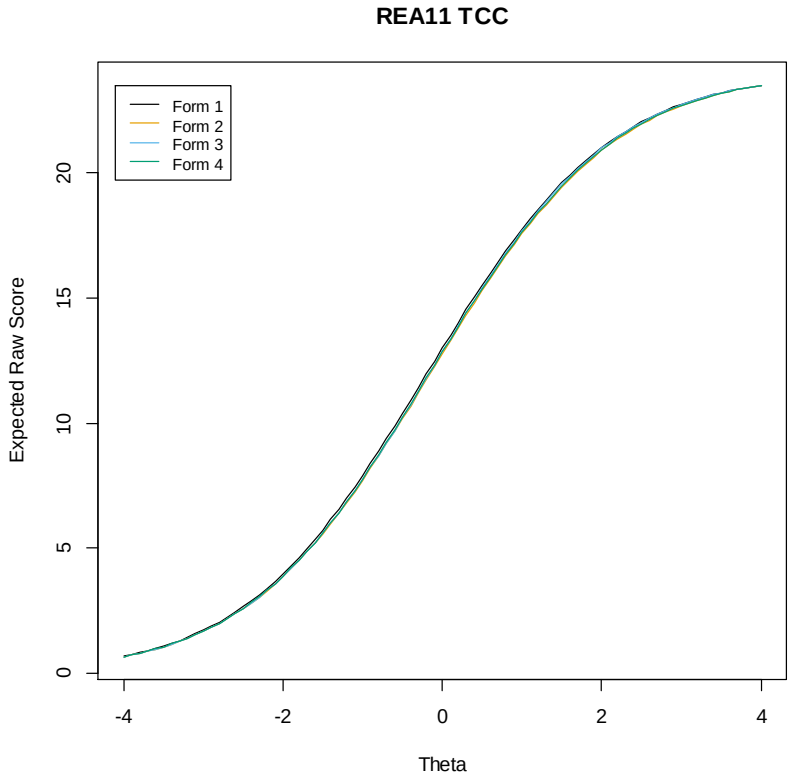
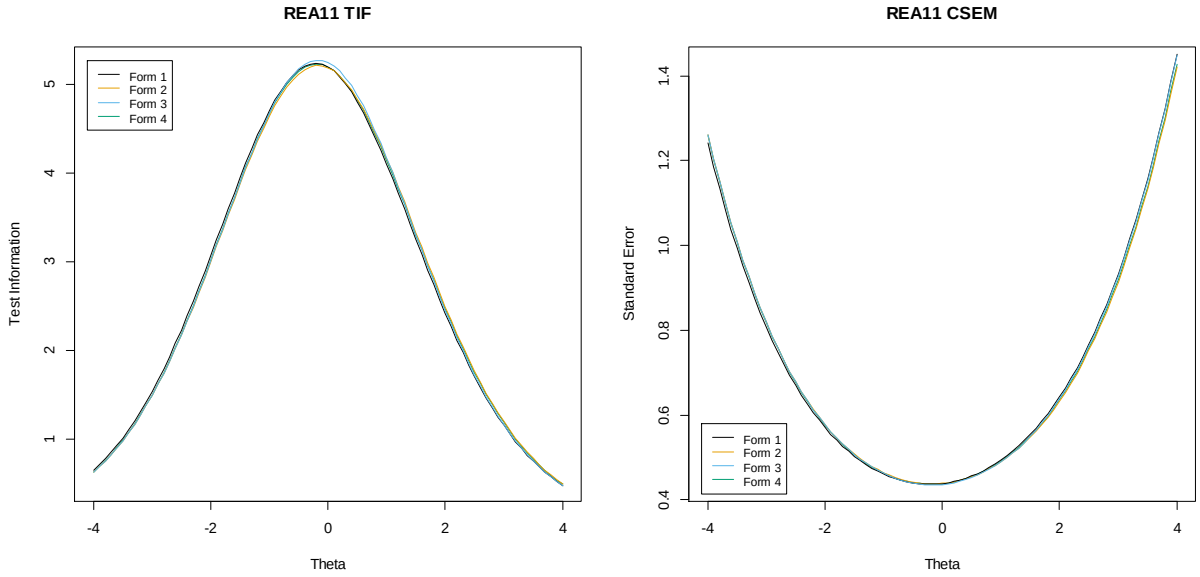


FIGURE 6. TEST INFORMATION FUNCTION AND STANDARD ERROR FOR GRADE 11 READING



The IRT results clearly indicate an improved (i.e., higher) degree of similarity between the four reading forms at each grade level in terms of both their TCC and TIF, as compared to the curves calculated for the initial versions of these forms (see Figures 23 to 28 in *NCSC Initial Core Item List Report*). The largest differences occur for the four TIF curves for reading grade 8; however, the differences in TIF are relevant only to the degree that they cause differences in the conditional standard error of mesurement (CSEM). As seen in Figure 4, the differences in CSEM are clearly small and not of concern. Because TIF is proportional to the square of the CSEM, small differences in CSEM can sometimes appear exggerated when looked at in terms of TIF, which is why we provide both curves for our analyses.

Concluding Remarks

After the initial core item selection for the 2015 operational administration, the NCSC steering committee reviewed the *NCSC Initial Core Item List Report* and expressed some concerns about the statistical equivalence of the four forms corresponding to the reading tests in grades 7, 8, and 11. Consequently, the steering committee recommended that Measured Progress construct revised forms for these reading tests where statistical comparability would be emphasized without regard to content considerations. The construction of the revised forms was completed in this manner, and the results were presented in this document. The results indicated that, as desired, the revised reading forms within grades 7, 8, and 11 now exhibit a notably improved degree of statistical similarity with each other. As discussed in regard to the initial form selection (see the *NCSC Initial Core Item List Report*) and emphasized again here, the item statistics used for the classical and IRT analyses came from pilot data, not operational. Moreover, because standards have not yet been set and scales have not yet been established, the typical statistical evaluation of the TCC and TIF at the cuts and the raw-score-to-scale-score conversion tables could not be conducted. Thus, we continue to emphasize that quality of the content characteristics of the forms is the primary criterion for properly evaluating these initial forms. The operational administration will result in more reliable, stable, and accurate statistics, which will enable a high quality statistical evaluation process to augment the content evaluation.

We are very grateful for the time and efforts of the steering committee, who, we are certain, have spent a great deal of time overseeing the NCSC assessment program, including the transfer of the psychometric responsibilities for form development to Measured Progress. We are especially grateful for your careful consideration and discussion of the initial forms and your valuable feedback in regard to the recommended revisions we have implemented as described in this follow-up report. We look forward to continued discussions in regard to the NCSC assessment program.

APPENDIX A—REVISED TEST MAP FOR CORE ITEMS

Revised Test Map for Core Items on Grade 7 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_1	TIER 1	MC	1	0.81	0.34	Reading Informational Text
122038A	RD_07_1	TIER 1	MC	2	0.80	0.36	Reading Informational Text
122037A	RD_07_1	TIER 1	MC	3	0.81	0.32	Reading Informational Text
113802B	RD_07_1	TIER 1	MC	4	0.84	0.34	Reading at Word Level
114594A	RD_07_1	TIER 2	MC	5	0.64	0.24	Reading Literature
700001P	RD_07_1	TIER 2	CR - 2pts	6	0.64	0.31	Reading Literature
700002P	RD_07_1	TIER 2	CR - 2pts	7	0.47	0.19	Reading Literature
114596A	RD_07_1	TIER 2	MC	8	0.64	0.31	Reading at Word Level
700003P	RD_07_1	TIER 3	CR - 2pts	9	0.52	0.13	Reading Informational Text
121347A	RD_07_1	TIER 3	MC	10	0.52	0.17	Reading Informational Text
121343A	RD_07_1	TIER 3	MC	11	0.47	0.08	Reading Informational Text
115373A	RD_07_1	TIER 3	MC	12	0.53	0.16	Reading at Word Level
115431A	RD_07_1	TIER 3	MC	21	0.57	0.62	Reading Literature
700004P	RD_07_1	TIER 3	CR - 2pts	22	0.56	0.45	Reading Literature
700005P	RD_07_1	TIER 3	CR - 2pts	23	0.58	0.48	Reading Literature
115432A	RD_07_1	TIER 3	MC	24	0.43	0.31	Reading at Word Level

Revised Test Map for Core Items on Grade 7 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_2	TIER 1	MC	1	0.81	0.38	Reading Informational Text
122038A	RD_07_2	TIER 1	MC	2	0.80	0.33	Reading Informational Text
122037A	RD_07_2	TIER 1	MC	3	0.81	0.30	Reading Informational Text
113802B	RD_07_2	TIER 1	MC	4	0.84	0.33	Reading at Word Level
114594A	RD_07_2	TIER 2	MC	5	0.64	0.30	Reading Literature
700001P	RD_07_2	TIER 2	CR - 2pts	6	0.64	0.33	Reading Literature
700002P	RD_07_2	TIER 2	CR - 2pts	7	0.47	0.20	Reading Literature
114596A	RD_07_2	TIER 2	MC	8	0.64	0.37	Reading at Word Level
700003P	RD_07_2	TIER 3	CR - 2pts	9	0.52	0.12	Reading Informational Text
121347A	RD_07_2	TIER 3	MC	10	0.52	0.25	Reading Informational Text
121343A	RD_07_2	TIER 3	MC	11	0.47	0.14	Reading Informational Text
115373A	RD_07_2	TIER 3	MC	12	0.53	0.19	Reading at Word Level
114646A	RD_07_2	TIER 2	MC	13	0.79	0.50	Reading Literature
700006P	RD_07_2	TIER 2	CR - 2pts	14	0.70	0.62	Reading Literature
700007P	RD_07_2	TIER 2	CR - 2pts	15	0.56	0.56	Reading Literature
114645A	RD_07_2	TIER 2	MC	16	0.50	0.53	Reading at Word Level

Revised Test Map for Core Items on Grade 7 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_3	TIER 1	MC	1	0.81	0.33	Reading Informational Text
122038A	RD_07_3	TIER 1	MC	2	0.80	0.35	Reading Informational Text
122037A	RD_07_3	TIER 1	MC	3	0.81	0.27	Reading Informational Text
113802B	RD_07_3	TIER 1	MC	4	0.84	0.34	Reading at Word Level
114594A	RD_07_3	TIER 2	MC	5	0.64	0.29	Reading Literature
700001P	RD_07_3	TIER 2	CR - 2pts	6	0.64	0.36	Reading Literature
700002P	RD_07_3	TIER 2	CR - 2pts	7	0.47	0.17	Reading Literature
114596A	RD_07_3	TIER 2	MC	8	0.64	0.37	Reading at Word Level
700003P	RD_07_3	TIER 3	CR - 2pts	9	0.52	0.15	Reading Informational Text
121347A	RD_07_3	TIER 3	MC	10	0.52	0.20	Reading Informational Text
121343A	RD_07_3	TIER 3	MC	11	0.47	0.11	Reading Informational Text
115373A	RD_07_3	TIER 3	MC	12	0.53	0.20	Reading at Word Level
114633A	RD_07_3	TIER 3	MC	21	0.74	0.45	Reading Literature
700010P	RD_07_3	TIER 3	CR - 2pts	22	0.47	0.41	Reading Literature
700011P	RD_07_3	TIER 3	CR - 2pts	23	0.63	0.52	Reading Literature
114632A	RD_07_3	TIER 3	MC	24	0.45	0.41	Reading at Word Level

Revised Test Map for Core Items on Grade 7 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113801A	RD_07_4	TIER 1	MC	1	0.81	0.35	Reading Informational Text
122038A	RD_07_4	TIER 1	MC	2	0.80	0.34	Reading Informational Text
122037A	RD_07_4	TIER 1	MC	3	0.81	0.34	Reading Informational Text
113802B	RD_07_4	TIER 1	MC	4	0.84	0.33	Reading at Word Level
114594A	RD_07_4	TIER 2	MC	5	0.64	0.31	Reading Literature
700001P	RD_07_4	TIER 2	CR - 2pts	6	0.64	0.36	Reading Literature
700002P	RD_07_4	TIER 2	CR - 2pts	7	0.47	0.22	Reading Literature
114596A	RD_07_4	TIER 2	MC	8	0.64	0.40	Reading at Word Level
700003P	RD_07_4	TIER 3	CR - 2pts	9	0.52	0.12	Reading Informational Text
121347A	RD_07_4	TIER 3	MC	10	0.52	0.21	Reading Informational Text
121343A	RD_07_4	TIER 3	MC	11	0.47	0.15	Reading Informational Text
115373A	RD_07_4	TIER 3	MC	12	0.53	0.19	Reading at Word Level
114482A	RD_07_4	TIER 2	MC	13	0.69	0.33	Reading Literature
700012P	RD_07_4	TIER 2	CR - 2pts	14	0.63	0.27	Reading Literature
114481A	RD_07_4	TIER 2	MC	16	0.49	0.29	Reading at Word Level

Revised Test Map for Core Items on Grade 8 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_1	TIER 1	MC	1	0.84	0.25	Reading Informational Text
121729B	RD_08_1	TIER 1	MC	2	0.52	0.02	Reading Informational Text
121761A	RD_08_1	TIER 1	MC	3	0.71	0.13	Reading Informational Text
113425A	RD_08_1	TIER 1	MC	4	0.85	0.28	Reading at Word Level
114688A	RD_08_1	TIER 2	MC	5	0.55	0.15	Reading Literature
800001P	RD_08_1	TIER 2	CR - 2pts	6	0.63	0.27	Reading Literature
800002P	RD_08_1	TIER 2	CR - 2pts	7	0.74	0.26	Reading Literature
114687A	RD_08_1	TIER 2	MC	8	0.64	0.28	Reading at Word Level
114229A	RD_08_1	TIER 3	MC	9	0.47	0.09	Reading Informational Text
114230B	RD_08_1	TIER 3	MC	10	0.60	0.22	Reading Informational Text
800003P	RD_08_1	TIER 3	CR - 2pts	11	0.51	0.25	Reading Informational Text
114228A	RD_08_1	TIER 3	MC	12	0.49	0.20	Reading at Word Level
114876A	RD_08_1	TIER 3	MC	21	0.71	0.33	Reading Literature
800004P	RD_08_1	TIER 3	CR - 2pts	22	0.43	0.30	Reading Literature
800005P	RD_08_1	TIER 3	CR - 2pts	23	0.44	0.31	Reading Literature
114879A	RD_08_1	TIER 3	MC	24	0.68	0.38	Reading at Word Level

Revised Test Map for Core Items on Grade 8 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_2	TIER 1	MC	1	0.84	0.28	Reading Informational Text
121729B	RD_08_2	TIER 1	MC	2	0.52	0.05	Reading Informational Text
121761A	RD_08_2	TIER 1	MC	3	0.71	0.13	Reading Informational Text
113425A	RD_08_2	TIER 1	MC	4	0.85	0.21	Reading at Word Level
114688A	RD_08_2	TIER 2	MC	5	0.55	0.23	Reading Literature
800001P	RD_08_2	TIER 2	CR - 2pts	6	0.63	0.27	Reading Literature
800002P	RD_08_2	TIER 2	CR - 2pts	7	0.74	0.30	Reading Literature
114687A	RD_08_2	TIER 2	MC	8	0.64	0.30	Reading at Word Level
114229A	RD_08_2	TIER 3	MC	9	0.47	0.16	Reading Informational Text
114230B	RD_08_2	TIER 3	MC	10	0.60	0.18	Reading Informational Text
800003P	RD_08_2	TIER 3	CR - 2pts	11	0.51	0.24	Reading Informational Text
114228A	RD_08_2	TIER 3	MC	12	0.49	0.19	Reading at Word Level
115274A	RD_08_2	TIER 3	MC	21	0.82	0.25	Reading Literature
800008P	RD_08_2	TIER 3	CR - 2pts	22	0.53	0.35	Reading Literature
800009P	RD_08_2	TIER 3	CR - 2pts	23	0.50	0.25	Reading Literature
115272A	RD_08_2	TIER 3	MC	24	0.57	0.53	Reading at Word Level

Revised Test Map for Core Items on Grade 8 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_3	TIER 1	MC	1	0.84	0.28	Reading Informational Text
121729B	RD_08_3	TIER 1	MC	2	0.52	0.03	Reading Informational Text
121761A	RD_08_3	TIER 1	MC	3	0.71	0.18	Reading Informational Text
113425A	RD_08_3	TIER 1	MC	4	0.85	0.27	Reading at Word Level
114688A	RD_08_3	TIER 2	MC	5	0.55	0.25	Reading Literature
800001P	RD_08_3	TIER 2	CR - 2pts	6	0.63	0.31	Reading Literature
800002P	RD_08_3	TIER 2	CR - 2pts	7	0.74	0.31	Reading Literature
114687A	RD_08_3	TIER 2	MC	8	0.64	0.30	Reading at Word Level
114229A	RD_08_3	TIER 3	MC	9	0.47	0.18	Reading Informational Text
114230B	RD_08_3	TIER 3	MC	10	0.60	0.24	Reading Informational Text
800003P	RD_08_3	TIER 3	CR - 2pts	11	0.51	0.28	Reading Informational Text
114228A	RD_08_3	TIER 3	MC	12	0.49	0.22	Reading at Word Level
114798A	RD_08_3	TIER 1	MC	13	0.87	0.34	Reading Literature
114799A	RD_08_3	TIER 1	MC	14	0.89	0.31	Reading Literature
114797A	RD_08_3	TIER 1	MC	15	0.89	0.33	Reading Literature
114796A	RD_08_3	TIER 1	MC	16	0.69	0.37	Reading at Word Level
121145A	RD_08_3	TIER 3	MC	20	0.45	0.21	Reading Informational Text
800011P	RD_08_3	TIER 3	CR - 2pts	21	0.51	0.49	Reading Informational Text
121148B	RD_08_3	TIER 3	MC	22	0.43	0.19	Reading Informational Text
121149A	RD_08_3	TIER 3	MC	23	0.52	0.09	Reading Informational Text
121151B	RD_08_3	TIER 3	MC	24	0.43	0.36	Reading at Word Level

Revised Test Map for Core Items on Grade 8 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
113423A	RD_08_4	TIER 1	MC	1	0.84	0.25	Reading Informational Text
121729B	RD_08_4	TIER 1	MC	2	0.52	0.05	Reading Informational Text
121761A	RD_08_4	TIER 1	MC	3	0.71	0.15	Reading Informational Text
113425A	RD_08_4	TIER 1	MC	4	0.85	0.24	Reading at Word Level
114688A	RD_08_4	TIER 2	MC	5	0.55	0.20	Reading Literature
800001P	RD_08_4	TIER 2	CR - 2pts	6	0.63	0.32	Reading Literature
800002P	RD_08_4	TIER 2	CR - 2pts	7	0.74	0.32	Reading Literature
114687A	RD_08_4	TIER 2	MC	8	0.64	0.29	Reading at Word Level
114229A	RD_08_4	TIER 3	MC	9	0.47	0.14	Reading Informational Text
114230B	RD_08_4	TIER 3	MC	10	0.60	0.23	Reading Informational Text
800003P	RD_08_4	TIER 3	CR - 2pts	11	0.51	0.24	Reading Informational Text
114228A	RD_08_4	TIER 3	MC	12	0.49	0.17	Reading at Word Level
115286A	RD_08_4	TIER 2	MC	13	0.64	0.28	Reading Literature
800012P	RD_08_4	TIER 2	CR - 2pts	14	0.76	0.63	Reading Literature
800013P	RD_08_4	TIER 2	CR - 2pts	15	0.67	0.55	Reading Literature
115285A	RD_08_4	TIER 2	MC	16	0.58	0.44	Reading at Word Level

Revised Test Map for Core Items on Grade 11 Reading Form 1

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_1	TIER 1	MC	1	0.81	0.25	Reading Informational Text
121227A	RD_11_1	TIER 1	MC	2	0.85	0.31	Reading Informational Text
120149A	RD_11_1	TIER 1	MC	3	0.74	0.34	Reading Informational Text
121230A	RD_11_1	TIER 1	MC	4	0.82	0.32	Reading at Word Level
121228A	RD_11_1	TIER 1	MC	5	0.90	0.24	Reading Informational Text
121229A	RD_11_1	TIER 1	MC	6	0.71	0.28	Reading Informational Text
120148B	RD_11_1	TIER 1	MC	7	0.87	0.27	Reading Informational Text
120150A	RD_11_1	TIER 1	MC	8	0.70	0.23	Reading Informational Text
110001P	RD_11_1	TIER 2	CR - 2pts	9	0.64	0.42	Reading Literature
119081A	RD_11_1	TIER 2	MC	10	0.75	0.34	Reading Literature
119080A	RD_11_1	TIER 2	MC	11	0.71	0.33	Reading Literature
119079A	RD_11_1	TIER 2	MC	12	0.68	0.41	Reading at Word Level
121065A	RD_11_1	TIER 3	MC	13	0.37	0.08	Reading Informational Text
110003P	RD_11_1	TIER 3	CR - 2pts	14	0.34	0.10	Reading Informational Text
121130A	RD_11_1	TIER 3	MC	15	0.49	0.17	Reading Informational Text
117168A	RD_11_1	TIER 3	MC	16	0.63	0.36	Reading Informational Text
117167A	RD_11_1	TIER 3	MC	17	0.61	0.30	Reading at Word Level
110004P	RD_11_1	TIER 3	CR - 2pts	22	0.49	0.45	Reading Informational Text
110005P	RD_11_1	TIER 3	CR - 2pts	23	0.56	0.49	Reading Informational Text
110006P	RD_11_1	TIER 3	CR - 2pts	24	0.49	0.50	Reading Informational Text
114180A	RD_11_1	TIER 3	MC	25	0.64	0.31	Reading Informational Text
114182A	RD_11_1	TIER 3	MC	26	0.62	0.36	Reading at Word Level

Revised Test Map for Core Items on Grade 11 Reading Form 2

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_2	TIER 1	MC	1	0.81	0.32	Reading Informational Text
121227A	RD_11_2	TIER 1	MC	2	0.85	0.33	Reading Informational Text
120149A	RD_11_2	TIER 1	MC	3	0.74	0.34	Reading Informational Text
121230A	RD_11_2	TIER 1	MC	4	0.82	0.33	Reading at Word Level
121228A	RD_11_2	TIER 1	MC	5	0.90	0.27	Reading Informational Text
121229A	RD_11_2	TIER 1	MC	6	0.71	0.26	Reading Informational Text
120148B	RD_11_2	TIER 1	MC	7	0.87	0.28	Reading Informational Text
120150A	RD_11_2	TIER 1	MC	8	0.70	0.25	Reading Informational Text
110001P	RD_11_2	TIER 2	CR - 2pts	9	0.64	0.44	Reading Literature
119081A	RD_11_2	TIER 2	MC	10	0.75	0.39	Reading Literature
119080A	RD_11_2	TIER 2	MC	11	0.71	0.34	Reading Literature
119079A	RD_11_2	TIER 2	MC	12	0.68	0.40	Reading at Word Level
121065A	RD_11_2	TIER 3	MC	13	0.37	0.06	Reading Informational Text
110003P	RD_11_2	TIER 3	CR - 2pts	14	0.34	0.04	Reading Informational Text
121130A	RD_11_2	TIER 3	MC	15	0.49	0.18	Reading Informational Text
117168A	RD_11_2	TIER 3	MC	16	0.63	0.36	Reading Informational Text
117167A	RD_11_2	TIER 3	MC	17	0.61	0.31	Reading at Word Level
110010P	RD_11_2	TIER 3	CR - 2pts	23	0.49	0.29	Reading Literature
116324A	RD_11_2	TIER 3	MC	24	0.73	0.47	Reading Literature
116323A	RD_11_2	TIER 3	MC	25	0.66	0.61	Reading Literature
116325A	RD_11_2	TIER 3	MC	26	0.48	0.30	Reading at Word Level

Revised Test Map for Core Items on Grade 11 Reading Form 3

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_3	TIER 1	MC	1	0.81	0.30	Reading Informational Text
121227A	RD_11_3	TIER 1	MC	2	0.85	0.30	Reading Informational Text
120149A	RD_11_3	TIER 1	MC	3	0.74	0.36	Reading Informational Text
121230A	RD_11_3	TIER 1	MC	4	0.82	0.36	Reading at Word Level
121228A	RD_11_3	TIER 1	MC	5	0.90	0.30	Reading Informational Text
121229A	RD_11_3	TIER 1	MC	6	0.71	0.30	Reading Informational Text
120148B	RD_11_3	TIER 1	MC	7	0.87	0.28	Reading Informational Text
120150A	RD_11_3	TIER 1	MC	8	0.70	0.22	Reading Informational Text
110001P	RD_11_3	TIER 2	CR - 2pts	9	0.64	0.43	Reading Literature
119081A	RD_11_3	TIER 2	MC	10	0.75	0.41	Reading Literature
119080A	RD_11_3	TIER 2	MC	11	0.71	0.36	Reading Literature
119079A	RD_11_3	TIER 2	MC	12	0.68	0.44	Reading at Word Level
121065A	RD_11_3	TIER 3	MC	13	0.37	0.03	Reading Informational Text
110003P	RD_11_3	TIER 3	CR - 2pts	14	0.34	0.03	Reading Informational Text
121130A	RD_11_3	TIER 3	MC	15	0.49	0.18	Reading Informational Text
117168A	RD_11_3	TIER 3	MC	16	0.63	0.40	Reading Informational Text
117167A	RD_11_3	TIER 3	MC	17	0.61	0.32	Reading at Word Level
110011P	RD_11_3	TIER 3	CR - 2pts	23	0.43	0.37	Reading Literature
113711A	RD_11_3	TIER 3	MC	24	0.53	0.24	Reading Literature
113712A	RD_11_3	TIER 3	MC	25	0.60	0.50	Reading Literature
121743A	RD_11_3	TIER 3	MC	26	0.60	0.54	Reading at Word Level

Revised Test Map for Core Items on Grade 11 Reading Form 4

Item ID	Testlet	Tier	Type	Position	p-value	Item-total correlation	Domain
120151A	RD_11_4	TIER 1	MC	1	0.81	0.32	Reading Informational Text
121227A	RD_11_4	TIER 1	MC	2	0.85	0.34	Reading Informational Text
120149A	RD_11_4	TIER 1	MC	3	0.74	0.32	Reading Informational Text
121230A	RD_11_4	TIER 1	MC	4	0.82	0.35	Reading at Word Level
121228A	RD_11_4	TIER 1	MC	5	0.90	0.26	Reading Informational Text
121229A	RD_11_4	TIER 1	MC	6	0.71	0.31	Reading Informational Text
120148B	RD_11_4	TIER 1	MC	7	0.87	0.29	Reading Informational Text
120150A	RD_11_4	TIER 1	MC	8	0.70	0.25	Reading Informational Text
110001P	RD_11_4	TIER 2	CR - 2pts	9	0.64	0.42	Reading Literature
119081A	RD_11_4	TIER 2	MC	10	0.75	0.41	Reading Literature
119080A	RD_11_4	TIER 2	MC	11	0.71	0.37	Reading Literature
119079A	RD_11_4	TIER 2	MC	12	0.68	0.42	Reading at Word Level
121065A	RD_11_4	TIER 3	MC	13	0.37	0.08	Reading Informational Text
110003P	RD_11_4	TIER 3	CR - 2pts	14	0.34	0.08	Reading Informational Text
121130A	RD_11_4	TIER 3	MC	15	0.49	0.17	Reading Informational Text
117168A	RD_11_4	TIER 3	MC	16	0.63	0.40	Reading Informational Text
117167A	RD_11_4	TIER 3	MC	17	0.61	0.34	Reading at Word Level
110012P	RD_11_4	TIER 2	CR - 2pts	18	0.56	0.53	Reading Literature
113727A	RD_11_4	TIER 2	MC	19	0.47	0.09	Reading Literature
113728A	RD_11_4	TIER 2	MC	20	0.76	0.46	Reading Literature
121746A	RD_11_4	TIER 2	MC	21	0.70	0.47	Reading at Word Level