Pre-Formatted Reports: Benchmark Test Item Analysis - New Format

Data Selections

Institution(s): All School Types,All Schools
Benchmark Administration: 10/28/14, 2014-15 BA1 7th Math Calculator Inactive
Trend Profile: 2014-2015
Subject: Mathematics
Test Focus: Mathematics
Test Level: All Benchmark Test Levels
Test Category: District Benchmark
Grade: All Grade Levels
Enrollment: Current

Number of questions: 12
Number of test-taking students: 1435

Student Responses

Question - Type	Correct Rate	Correct Value	Incorrect Total Rate	Most Common Mistake Rate	Most Common Mistake Value	Point Value	Points Achieved / Possible	P-Value/ Item Mean	Discrimination
1 - Multiple Choice	73%	C	27%	12%	A	1	1053 / 1435	0.73	0.48
2 - Multiple Choice	59%	C	41%	27%	B	1	840 / 1435	0.59	0.46
3 - Multiple Choice	64%	C	36%	17%	B	1	920 / 1435	0.64	0.57
4 - Multiple Choice	61%	B	39%	20%	C	1	871 / 1435	0.61	0.38
5 - Multiple Choice	15%	C	85%	42%	A	1	215 / 1435	0.15	0.18
6 - Multiple Choice	58%	C	42%	17%	B	1	826 / 1435	0.58	0.45
7 - Multiple Choice	58%	A	42%	23%	B	1	827 / 1435	0.58	0.59
8 - Multiple Choice	54%	A	46%	20%	D	1	780 / 1435	0.55	0.48
9 - Multiple Choice	44%	B	56%	32%	A	1	629 / 1435	0.44	0.48
10 - Multiple Choice	54%	A	46%	24%	C	1	781 / 1435	0.55	0.44
11 - Gridded	14%, 0%, 0%, 0%	1.92, 001.92, 1.920, 1.9200	85%	16%	12.48	1	210 / 1435	0.15	0.46
12 - Gridded	24%, 0%, 0%, 0%, 0%	3.25, 3.2500, 03.250, 3.250, 003.25	76%	6%	5.05	1	349 / 1435	0.24	0.56
Summary	48%		52%				692 / 1435		

P-value represents an item's difficulty as evaluated by dividing the total number of correct responses by the total number of students tested. P-value is calculated for true/false, multiple choice, gridded or hot spot-single response items.

Item Mean is the average score for student responses to an open response question or to a multi-part question. Item Mean

is calculated for inline response, matching or hot spot-multiple selections items.

Discrimination or Item Total Score Correlation is the correlation between the question score and the overall test score and indicates the extent to which success on an item corresponds to success on the test.

Standards Alignment to NC Standards

Question	ID	Standard Description
1 - Multiple Choice	CCSS.Math.Content.7.NS.A.1d	Apply properties of operations as strategies to add and subtract rational numbers.
2 - Multiple Choice	CCSS.Math.Content.7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
3 - Multiple Choice	CCSS.Math.Content.7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
4 - Multiple Choice	CCSS.Math.Content.7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
5 - Multiple Choice	CCSS.Math.Content.7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
6 - Multiple Choice	CCSS.Math.Content.7.NS.A.2	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
7 - Multiple Choice	CCSS.Math.Content.7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers. Computations with rational numbers extend the rules for manipulating fractions to complex fractions.
8 - Multiple Choice	CCSS.Math.Content.7.EE.A.1	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.
9 - Multiple Choice	CCSS.Math.Content.7.EE.A.1	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.
10 - Multiple Choice	CCSS.Math.Content.7.NS.A.1d	Apply properties of operations as strategies to add and subtract rational numbers.
11 - Gridded	CCSS.Math.Content.7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers. Computations with rational numbers extend the rules for manipulating fractions to complex fractions.
12 - Gridded	CCSS.Math.Content.7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers. Computations with rational numbers extend the rules for manipulating fractions to complex fractions.

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