



2012 Mathematics Tests Standard and Performance Indicator Map Grade 6

Question	Type	Points	Strand	Performance Indicator
Book 1				
01	Multiple Choice	1	Number Sense and Operations	6.N.25 Evaluate expressions having exponents where the power is an exponent of one, two, or three
02	Multiple Choice	1	Statistics and Probability	6.S.6 Determine the range for a given set of data
03	Multiple Choice	1	Number Sense and Operations	6.N.16 Add and subtract fractions with unlike denominators
04	Multiple Choice	1	Algebra	6.A.2 Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)
05	Multiple Choice	1	Algebra	6.A.3 Translate two-step verbal sentences into algebraic equations
06	Multiple Choice	1	Number Sense and Operations	6.N.7 Express equivalent ratios as a proportion
07	Multiple Choice	1	Number Sense and Operations	6.N.11 Read, write, and identify percents of a whole (0% to 100%)
08	Multiple Choice	1	Statistics and Probability	6.S.6 Determine the range for a given set of data
09	Multiple Choice	1	Geometry	6.G.1 Calculate the length of corresponding sides of similar triangles, using proportional reasoning
10	Multiple Choice	1	Number Sense and Operations	6.N.18 Add, subtract, multiply, and divide mixed numbers with unlike denominators
11	Multiple Choice	1	Statistics and Probability	6.S.6 Determine the range for a given set of data
12	Multiple Choice	1	Algebra	6.A.6 Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)
19	Multiple Choice	1	Measurement	6.M.7 Estimate volume, area, and circumference (see figures identified in geometry strand)

2012 Mathematics Tests Standard and Performance Indicator Map Grade 6 (continued)

Question	Type	Points	Strand	Performance Indicator
20	Multiple Choice	1	Geometry	6.G.5 Identify radius, diameter, chords and central angles of a circle
21	Multiple Choice	1	Algebra	6.A.2 Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)
22	Multiple Choice	1	Geometry	6.G.6 Understand the relationship between the diameter and radius of a circle
23	Multiple Choice	1	Algebra	6.A.5 Solve simple proportions within context
24	Multiple Choice	1	Statistics and Probability	6.S.5 Determine the mean, mode and median for a given set of data
25	Multiple Choice	1	Measurement	6.M.3 Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)
26	Multiple Choice	1	Number Sense and Operations	6.N.2 Define and identify the commutative and associative properties of addition and multiplication
27	Multiple Choice	1	Number Sense and Operations	6.N.22 Evaluate numerical expressions using order of operations (may include exponents of two and three)
28	Multiple Choice	1	Number Sense and Operations	6.N.21 Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)
29	Multiple Choice	1	Number Sense and Operations	6.N.13 Define absolute value and determine the absolute value of rational numbers (including positive and negative)
30	Multiple Choice	1	Number Sense and Operations	6.N.14 Locate rational numbers on a number line (including positive and negative)
Book 2				
31	Multiple Choice	1	Statistics and Probability	6.S.7 Read and interpret graphs
32	Multiple Choice	1	Number Sense and Operations	6.N.16 Add and subtract fractions with unlike denominators
33	Multiple Choice	1	Algebra	6.A.6 Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)

2012 Mathematics Tests Standard and Performance Indicator Map Grade 6 (continued)

Question	Type	Points	Strand	Performance Indicator
34	Multiple Choice	1	Number Sense and Operations	6.N.19 Identify the multiplicative inverse (reciprocal) of a number
35	Multiple Choice	1	Number Sense and Operations	6.N.25 Evaluate expressions having exponents where the power is an exponent of one, two, or three
36	Multiple Choice	1	Number Sense and Operations	6.N.4 Define and identify the identity and inverse properties of addition and multiplication
37	Multiple Choice	1	Number Sense and Operations	6.N.9 Solve proportions using equivalent fractions
38	Multiple Choice	1	Geometry	6.G.6 Understand the relationship between the diameter and radius of a circle
39	Multiple Choice	1	Measurement	6.M.1 Measure capacity and calculate volume of a rectangular prism
40	Multiple Choice	1	Geometry	6.G.7 Determine the area and circumference of a circle, using the appropriate formula
41	Multiple Choice	1	Number Sense and Operations	6.N.12 Solve percent problems involving percent, rate, and base
42	Multiple Choice	1	Measurement	6.M.5 Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)
49	Multiple Choice	1	Statistics and Probability	6.S.5 Determine the mean, mode and median for a given set of data
50	Multiple Choice	1	Measurement	6.M.5 Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)
51	Multiple Choice	1	Geometry	6.G.4 Determine the volume of rectangular prisms by counting cubes and develop the formula
52	Multiple Choice	1	Algebra	6.A.2 Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)
53	Multiple Choice	1	Algebra	6.A.1 Translate two-step verbal expressions into algebraic expressions
54	Multiple Choice	1	Algebra	6.A.5 Solve simple proportions within context
55	Multiple Choice	1	Statistics and Probability	6.S.5 Determine the mean, mode and median for a given set of data

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Question	Type	Points	Strand	Performance Indicator
56	Multiple Choice	1	Number Sense and Operations	6.N.18 Add, subtract, multiply, and divide mixed numbers with unlike denominators
57	Multiple Choice	1	Number Sense and Operations	6.N.15 Order rational numbers (including positive and negative)
58	Multiple Choice	1	Statistics and Probability	6.S.7 Read and interpret graphs
59	Multiple Choice	1	Number Sense and Operations	6.N.22 Evaluate numerical expressions using order of operations (may include exponents of two and three)
60	Multiple Choice	1	Number Sense and Operations	6.N.21 Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)
Book 3				
61	Short Response	2	Geometry	6.G.4 Determine the volume of rectangular prisms by counting cubes and develop the formula
62	Short Response	2	Algebra	6.A.2 Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)
63	Short Response	2	Number Sense and Operations	6.N.11 Read, write, and identify percents of a whole (0% to 100%)
64	Short Response	2	Geometry	6.G.1 Calculate the length of corresponding sides of similar triangles, using proportional reasoning
65	Short Response	2	Statistics and Probability	6.S.8 Justify predictions made from data
66	Extended Response	3	Algebra	6.A.5 Solve simple proportions within context
67	Extended Response	3	Number Sense and Operations	6.N.12 Solve percent problems involving percent, rate, and base
68	Extended Response	3	Geometry	6.G.7 Determine the area and circumference of a circle, using the appropriate formula
69	Extended Response	3	Measurement	6.M.1 Measure capacity and calculate volume of a rectangular prism