



**2011 Mathematics Test Standard and Performance Indicator Map
Grade 6**

Question	Type	Points	Strand	Content Performance Indicator
Book 1				
1	Multiple Choice	1	Number Sense and Operations	6.N01 Read and write whole numbers to trillions
2	Multiple Choice	1	Geometry	5.G12 Identify and plot points in the first quadrant
3	Multiple Choice	1	Number Sense and Operations	6.N14 Locate rational numbers on a number line (including positive and negative)
4	Multiple Choice	1	Number Sense and Operations	6.N23 Represent repeated multiplication in exponential form
5	Multiple Choice	1	Algebra	6.A06 Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)
6	Multiple Choice	1	Number Sense and Operations	6.N20 Represent fractions as terminating or repeating decimals
7	Multiple Choice	1	Algebra	6.A01 Translate two-step verbal expressions into algebraic expressions
8	Multiple Choice	1	Number Sense and Operations	6.N12 Solve percent problems involving percent, rate, and base
9	Multiple Choice	1	Number Sense and Operations	6.N11 Read, write, and identify percents of a whole (0% to 100%)
10	Multiple Choice	1	Number Sense and Operations	6.N02 Define and identify the commutative and associative properties of addition and multiplication
11	Multiple Choice	1	Measurement	6.M03 Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)
12	Multiple Choice	1	Number Sense and Operations	6.N24 Represent exponential form as repeated multiplication
13	Multiple Choice	1	Number Sense and Operations	6.N22 Evaluate numerical expressions using order of operations (may include exponents of two and three)
14	Multiple Choice	1	Statistics and Probability	6.S06 Determine the range for a given set of data
15	Multiple Choice	1	Geometry	5.G14 Calculate perimeter of basic geometric shapes drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths and parallel to the axes)
16	Multiple Choice	1	Statistics and Probability	5.S06 Record experiment results using fractions/ratios

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 6 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
17	Multiple Choice	1	Number Sense and Operations	6.N21 Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)
18	Multiple Choice	1	Measurement	6.M04 Identify metric units of capacity (liter and milliliter)
19	Multiple Choice	1	Number Sense and Operations	6.N13 Define absolute value and determine the absolute value of rational numbers (including positive and negative)
20	Multiple Choice	1	Number Sense and Operations	6.N09 Solve proportions using equivalent fractions
21	Multiple Choice	1	Algebra	6.A03 Translate two-step verbal sentences into algebraic equations
22	Multiple Choice	1	Geometry	6.G05 Identify radius, diameter, chords, and central angles of a circle
23	Multiple Choice	1	Number Sense and Operations	6.N26 Estimate a percent of quantity (0% to 100%)
24	Multiple Choice	1	Measurement	6.M05 Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)
25	Multiple Choice	1	Number Sense and Operations	6.N19 Identify the multiplicative inverse (reciprocal) of a number
26	Multiple Choice	1	Number Sense and Operations	6.N27 Justify the reasonableness of answers using estimation (including rounding)
27	Multiple Choice	1	Geometry	6.G04 Determine the volume of rectangular prisms by counting cubes and develop the formula
28	Multiple Choice	1	Statistics and Probability	5.S05 List the possible outcomes for a single-event experiment
29	Multiple Choice	1	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)
30	Multiple Choice	1	Measurement	6.M02 Identify customary units of capacity (cups, pints, quarts, and gallons)
31	Multiple Choice	1	Number Sense and Operations	6.N03 Define and identify the distributive property of multiplication over addition
32	Multiple Choice	1	Number Sense and Operations	6.N16 Add and subtract fractions with unlike denominators
33	Multiple Choice	1	Algebra	6.A05 Solve simple proportions within context
34	Multiple Choice	1	Geometry	6.G01 Calculate the length of corresponding sides of similar triangles, using proportional reasoning
35	Multiple Choice	1	Geometry	5.G13 Plot points to form basic geometric shapes (identify and classify)
36	Multiple Choice	1	Number Sense and Operations	6.N18 Add, subtract, multiply, and divide mixed numbers with unlike denominators

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 6 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
37	Multiple Choice	1	Statistics and Probability	6.S07 Read and interpret graphs
38	Multiple Choice	1	Statistics and Probability	6.S10 Determine the probability of dependent events
39	Multiple Choice	1	Statistics and Probability	6.S05 Determine the mean, mode, and median for a given set of data
40	Multiple Choice	1	Geometry	6.G08 Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle
Book 2				
41	Short Response	2	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)
42	Short Response	2	Statistics and Probability	6.S09 List possible outcomes for compound events
43	Short Response	2	Measurement	6.M01 Measure capacity and calculate volume of a rectangular prism
44	Short Response	2	Number Sense and Operations	6.N10 Verify the proportionality using the product of the means equals the product of the extremes
45	Short Response	2	Geometry	6.G01 Calculate the length of corresponding sides of similar triangles, using proportional reasoning
46	Short Response	2	Number Sense and Operations	6.N12 Solve percent problems involving percent, rate, and base
47	Extended Response	3	Algebra	6.A04 Solve and explain two-step equations involving whole numbers using inverse operations
48	Extended Response	3	Statistics and Probability	6.S07 Read and interpret graphs
49	Extended Response	3	Number Sense and Operations	6.N09 Solve proportions using equivalent fractions
50	Extended Response	3	Geometry	6.G08 Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle