

**2008 Mathematics Test Standard and Performance Indicator Map with Answer Key  
Grade 6**

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
<b>Book 1</b>					
1	Multiple Choice	1	Algebra	5.A04 Solve simple one-step equations using basic whole-number facts	A
2	Multiple Choice	1	Number Sense and Operations	6.N21 Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)	B
3	Multiple Choice	1	Number Sense and Operations	6.N13 Define absolute value and determine the absolute value of rational numbers (including positive and negative)	D
4	Multiple Choice	1	Geometry	6.G04 Determine the volume of rectangular prisms by counting cubes and develop the formula	C
5	Multiple Choice	1	Number Sense and Operations	6.N07 Express equivalent ratios as a proportion	C
6	Multiple Choice	1	Statistics and Probability	5.S06 Record experiment results using fractions/ratios	B
7	Multiple Choice	1	Algebra	5.A03 Substitute assigned values into variable expressions and evaluate using order of operations	C
8	Multiple Choice	1	Statistics and Probability	5.S07 Create a sample space and determine the probability of a single event, given a simple experiment (e.g., rolling a number cube)	C
9	Multiple Choice	1	Geometry	6.G07 Determine the area and circumference of a circle, using the appropriate formula	C
10	Multiple Choice	1	Measurement	6.M05 Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)	D
11	Multiple Choice	1	Number Sense and Operations	6.N18 Add, subtract, multiply and divide mixed numbers with unlike denominators	C
12	Multiple Choice	1	Geometry	5.G13 Plot points to form basic geometric shapes (identify and classify)	D
13	Multiple Choice	1	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)	D
14	Multiple Choice	1	Number Sense and Operations	6.N19 Identify the multiplicative inverse (reciprocal) of a number	B
15	Multiple Choice	1	Statistics and Probability	6.S05 Determine the mean, mode and median for a given set of data	C
16	Multiple Choice	1	Number Sense and Operations	6.N26 Estimate a percent of quantity (0% to 100%)	D
17	Multiple Choice	1	Algebra	6.A06 Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)	C
18	Multiple Choice	1	Number Sense and Operations	6.N23 Represent repeated multiplication in exponential form	C

**2008 Mathematics Test Standard and Performance Indicator Map with Answer Key  
Grade 6 (continued)**

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
<b>Book 1 (continued)</b>					
19	Multiple Choice	1	Measurement	6.M03 Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)	D
20	Multiple Choice	1	Statistics and Probability	6.S07 Read and interpret graphs	A
21	Multiple Choice	1	Number Sense and Operations	6.N25 Evaluate expressions having exponents where the power is an exponent of one, two, or three	D
22	Multiple Choice	1	Geometry	6.G05 Identify radius, diameter, chords, and central angles of a circle	B
23	Multiple Choice	1	Number Sense and Operations	6.N16 Add and subtract fractions with unlike denominators	D
24	Multiple Choice	1	Number Sense and Operations	6.N09 Solve proportions using equivalent fractions	D
25	Multiple Choice	1	Statistics and Probability	5.S05 List the possible outcomes for a single-event experiment	A
<b>Book 2</b>					
26	Short Response	2	Measurement	6.M01 Measure capacity and calculate volume of a rectangular prism	n/a
27	Extended Response	3	Algebra	5.A04 Solve simple one-step equations using basic whole-number facts	n/a
28	Extended Response	3	Geometry	5.G13 Plot points to form basic geometric shapes (identify and classify)	n/a
29	Short Response	2	Statistics and Probability	5.S06 Record experiment results using fractions/ratios	n/a
30	Extended Response	3	Number Sense and Operations	6.N12 Solve percent problems involving percent, rate, and base	n/a
31	Short Response	2	Statistics and Probability	6.S08 Justify predictions made from data	n/a
32	Short Response	2	Measurement	6.M07 Estimate volume, area, and circumference (see figures identified in geometry strand)	n/a
33	Extended Response	3	Statistics and Probability	6.S08 Justify predictions made from data	n/a
34	Short Response	2	Number Sense and Operations	6.N10 Verify the proportionality using the product of the means equals the product of the extremes	n/a
35	Short Response	2	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)	n/a