

### 2010 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	Number Sense and Operations	6.N07 Express equivalent ratios as a proportion	C
2	Multiple Choice	1	Number Sense and Operations	6.N23 Represent repeated multiplication in exponential form	C
3	Multiple Choice	1	Algebra	5.A04 Solve simple one-step equations using basic whole-number facts	B
4	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
5	Multiple Choice	1	Geometry	6.G11 Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths)	C
6	Multiple Choice	1	Number Sense and Operations	6.N05 Define and identify the zero property of multiplication	A
7	Multiple Choice	1	Geometry	6.G05 Identify radius, diameter, chords, and central angles of a circle	C
8	Multiple Choice	1	Algebra	6.A05 Solve simple proportions within context	B
9	Multiple Choice	1	Statistics and Probability	6.S11 Determine the number of possible outcomes for a compound event by using the fundamental counting principle and use this to determine the probabilities of events when the outcomes have equal probability	C
10	Multiple Choice	1	Geometry	6.G10 Identify and plot points in all four quadrants	D
11	Multiple Choice	1	Statistics and Probability	6.S05 Determine the mean, mode, and median for a given set of data	C
12	Multiple Choice	1	Algebra	6.A03 Translate two-step verbal sentences into algebraic equations	D
13	Multiple Choice	1	Measurement	6.M05 Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)	C
14	Multiple Choice	1	Algebra	6.A06 Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)	A
15	Multiple Choice	1	Number Sense and Operations	6.N22 Evaluate numerical expressions using order of operations (may include exponents of two and three)	C

**2010 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>					
16	Multiple Choice	1	Number Sense and Operations	6.N16 Add and subtract fractions with unlike denominators	A
17	Multiple Choice	1	Statistics and Probability	6.S07 Read and interpret graphs	C
18	Multiple Choice	1	Measurement	6.M03 Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)	B
19	Multiple Choice	1	Number Sense and Operations	6.N25 Evaluate expressions having exponents where the power is an exponent of one, two, or three	C
20	Multiple Choice	1	Number Sense and Operations	6.N12 Solve percent problems involving percent, rate, and base	A
21	Multiple Choice	1	Statistics and Probability	5.S06 Record experiment results using fractions/ratios	B
22	Multiple Choice	1	Geometry	6.G07 Determine the area and circumference of a circle, using the appropriate formula	D
23	Multiple Choice	1	Geometry	6.G06 Understand the relationship between the diameter and radius of a circle	C
24	Multiple Choice	1	Algebra	6.A01 Translate two-step verbal expressions into algebraic expressions	D
25	Multiple Choice	1	Measurement	6.M03 Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)	B
<b>Book 2</b>					
26	Short Response	2	Algebra	5.A05 Solve and explain simple one-step equations using inverse operations involving whole numbers	n/a
27	Short Response	2	Measurement	6.M01 Measure capacity and calculate volume of a rectangular prism	n/a
28	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
29	Short Response	2	Geometry	5.G12 Identify and plot points in the first quadrant	n/a
30	Short Response	2	Number Sense and Operations	6.N26 Estimate a percent of quantity (0% to 100%)	n/a
31	Short Response	2	Algebra	5.A05 Solve and explain simple one-step equations using inverse operations involving whole numbers	n/a
32	Extended Response	3	Algebra	5.A05 Solve and explain simple one-step equations using inverse operations involving whole numbers	n/a
33	Extended Response	3	Number Sense and Operations	6.N09 Solve proportions using equivalent fractions	n/a
34	Extended Response	3	Number Sense and Operations	6.N03 Define and identify the distributive property of multiplication over addition	n/a
35	Extended Response	3	Statistics and Probability	6.S07 Read and interpret graphs	n/a