

2009 Mathematics Tests Standard and Performance Indicator Map with Answer Key Grade 8

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1					
1	Multiple Choice	1	Algebra	7.A02 Add and subtract monomials with exponents of one	C
2	Multiple Choice	1	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	B
3	Multiple Choice	1	Geometry	7.G05 Identify the right angle, hypotenuse, and legs of a right triangle	B
4	Multiple Choice	1	Number Sense and Operations	8.N01 Develop and apply the laws of exponents for multiplication and division	C
5	Multiple Choice	1	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	B
6	Multiple Choice	1	Algebra	7.A04 Solve multi-step equations by combining like terms, using the distributive property, or moving variables to one side of the equation	C
7	Multiple Choice	1	Algebra	8.A03 Describe a situation involving relationships that matches a given graph	D
8	Multiple Choice	1	Geometry	7.G08 Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle	D
9	Multiple Choice	1	Geometry	8.G04 Determine angle pair relationships when given two parallel lines cut by a transversal	C
10	Multiple Choice	1	Algebra	8.A08 Multiply a binomial by a monomial or binomial (integer coefficients)	D
11	Multiple Choice	1	Algebra	8.A03 Describe a situation involving relationships that matches a given graph	C
12	Multiple Choice	1	Number Sense and Operations	8.N05 Estimate a percent of quantity, given an application	B
13	Multiple Choice	1	Geometry	8.G04 Determine angle pair relationships when given two parallel lines cut by a transversal	C
14	Multiple Choice	1	Algebra	8.A02 Write verbal expressions that match given mathematical expressions	B
15	Multiple Choice	1	Geometry	8.G01 Identify pairs of vertical angles as congruent	A

**2009 Mathematics Tests Standard and Performance Indicator Map with Answer Key
Grade 8 (continued)**

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1 (continued)					
16	Multiple Choice	1	Algebra	8.A09 Divide a polynomial by a monomial (integer coefficients)	B
17	Multiple Choice	1	Geometry	8.G06 Calculate the missing angle measurements when given two intersecting lines and an angle	A
18	Multiple Choice	1	Measurement	7.M01 Calculate distance using a map scale	D
19	Multiple Choice	1	Algebra	8.A04 Create a graph given a description or an expression for a situation involving a linear or nonlinear relationship	D
20	Multiple Choice	1	Geometry	8.G06 Calculate the missing angle measurements when given two intersecting lines and an angle	C
21	Multiple Choice	1	Algebra	8.A09 Divide a polynomial by a monomial (integer coefficients)	A
22	Multiple Choice	1	Measurement	7.M01 Calculate distance using a map scale	C
23	Multiple Choice	1	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	D
24	Multiple Choice	1	Geometry	8.G03 Calculate the missing angle in a supplementary or complementary pair	C
25	Multiple Choice	1	Measurement	7.M01 Calculate distance using a map scale	C
26	Multiple Choice	1	Geometry	7.G05 Identify the right angle, hypotenuse, and legs of a right triangle	A
27	Multiple Choice	1	Geometry	7.G08 Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle	B
Book 2					
28	Short Response	2	Geometry	8.G06 Calculate the missing angle measurements when given two intersecting lines and an angle	n/a
29	Short Response	2	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	n/a
30	Short Response	2	Algebra	7.A10 Write an equation to represent a function from a table of values	n/a
31	Short Response	2	Number Sense and Operations	8.N04 Apply percents to: tax, percent increase/decrease, simple interest, sale price, commission, interest rates, and gratuities	n/a
32	Extended Response	3	Algebra	7.A04 Solve multi-step equations by combining like terms, using the distributive property, or moving variables to one side of the equation	n/a
33	Extended Response	3	Geometry	8.G09 Draw the image of a figure under a reflection over a given line	n/a

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Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 3					
34	Short Response	2	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	n/a
35	Short Response	2	Algebra	7.A08 Create algebraic patterns using charts/tables, graphs, equations, and expressions	n/a
36	Short Response	2	Algebra	8.A06 Multiply and divide monomials	n/a
37	Short Response	2	Measurement	7.M06 Compare unit prices	n/a
38	Short Response	2	Algebra	8.A07 Add and subtract polynomials (integer coefficients)	n/a
39	Short Response	2	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	n/a
40	Short Response	2	Algebra	8.A03 Describe a situation involving relationships that matches a given graph	n/a
41	Short Response	2	Geometry	8.G01 Identify pairs of vertical angles as congruent	n/a
42	Extended Response	3	Geometry	8.G10 Draw the image of a figure under a translation	n/a
43	Extended Response	3	Algebra	8.A04 Create a graph given a description or an expression for a situation involving a linear or nonlinear relationship	n/a
44	Extended Response	3	Number Sense and Operations	8.N01 Develop and apply the laws of exponents for multiplication and division	n/a
45	Extended Response	3	Algebra	7.A04 Solve multi-step equations by combining like terms, using the distributive property, or moving variables to one side of the equation	n/a