2008 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	Geometry	8.G01 Identify pairs of vertical angles as congruent	D
2	Multiple Choice	1	Algebra	8.A02 Write verbal expressions that match given mathematical expressions	D
3	Multiple Choice	1	Geometry	8.G05 Calculate the missing angle measurements when given two parallel lines cut by a transversal	B
4	Multiple Choice	1	Geometry	8.G06 Calculate the missing angle measurements when given two intersecting lines and an angle	A
5	Multiple Choice	1	Algebra	8.A08 Multiply a binomial by a monomial or binomial (integer coefficients)	D
6	Multiple Choice	1	Geometry	7.G05 Identify the right angle, hypotenuse, and legs of a right triangle	B
7	Multiple Choice	1	Algebra	8.A09 Divide a polynomial by a monomial (integer coefficients) Note: The degree of the denominator is less than or equal to the degree of the numerator for all variables	D
8	Multiple Choice	1	Algebra	8.A01 Translate verbal sentences into algebraic inequalities	A
9	Multiple Choice	1	Geometry	8.G02 Identify pairs of supplementary and complementary angles	A
10	Multiple Choice	1	Number Sense and Operations	8.N04 Apply percents to: tax, percent increase/decrease, simple interest, sale price, commission, interest rates, and gratuities	B
11	Multiple Choice	1	Algebra	8.A08 Multiply a binomial by a monomial or binomial (integer coefficients)	D
12	Multiple Choice	1	Measurement	7.M01 Calculate distance using a map scale	B
13	Multiple Choice	1	Geometry	8.G03 Calculate the missing angle in a supplementary or complementary pair	D
14	Multiple Choice	1	Number Sense and Operations	8.N05 Estimate a percent of a quantity, given an application	B
15	Multiple Choice	1	Geometry	8.G04 Determine angle pair relationship when given two parallel lines cut by a transversal	B
16	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	A
17	Multiple Choice	1	Geometry	8.G08 Draw the image of a figure under rotations of 90 and 180 degrees	A

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Book 1 (continued)					
18	Multiple Choice	1	Algebra	8.A02 Write verbal expressions that match given mathematical expressions	D
19	Multiple Choice	1	Algebra	8.A06 Multiply and divide monomials	A
20	Multiple Choice	1	Algebra	7.A02 Add and subtract monomials and exponents of one	C
21	Multiple Choice	1	Measurement	7.M01 Calculate distance using a map scale	C
22	Multiple Choice	1	Geometry	8.G02 Identify pairs of supplementary and complementary angles	A
23	Multiple Choice	1	Algebra	8.A10 Factor algebraic expressions using the GCF	A
24	Multiple Choice	1	Algebra	7.A03 Identify a polynomial as an algebraic expression containing one or more terms	B
25	Multiple Choice	1	Geometry	7.G08 Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle	C
26	Multiple Choice	1	Geometry	8.G12 Identify the properties preserved and not preserved under a reflection, rotation, translation, and dilation	A
27	Multiple Choice	1	Algebra	8.A07 Add and subtract polynomials (integer coefficients)	B
Book 2					
28	Extended Response	3	Algebra	8.A16 Find a set of ordered pairs to satisfy a given linear numerical pattern (expressed algebraically); then plot the ordered pairs and draw the line	n/a
29	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
30	Short Response	2	Algebra	8.A06 Multiply and divide monomials	n/a
31	Extended Response	3	Algebra	8.A12 Apply algebra to determine the measure of angles formed by or contained in parallel lines cut by a transversal and by intersecting lines	n/a
32	Short Response	2	Geometry	8.G07 Describe and identify transformations in the plane, using proper function notation (rotations, reflections, translations, and dilations)	n/a
33	Short Response	2	Algebra	7.A07 Draw the graphic representation of a pattern from an equation or from a table of data	n/a

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 3					
34	Short Response	2	Geometry	8.G06 Calculate the missing angle measurements when given two intersecting lines and an angle	n/a
35	Short Response	2	Algebra	8.A07 Add and subtract polynomials (integer coefficients)	n/a
36	Short Response	2	Geometry	7.G08 Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle	n/a
37	Short Response	2	Geometry	8.G04 Determine angle pair relationship when given two parallel lines cut by a transversal	n/a
38	Short Response	2	Measurement	7.M07 Convert money between different currencies with the use of an exchange rate table and calculator	n/a
39	Short Response	2	Algebra	8.A03 Describe a situation involving relationships that matches a given graph	n/a
40	Extended Response	3	Number Sense and Operations	8.N04 Apply percents to: tax, percent increase/decrease, simple interest, sale price, commission, interest rates, and gratuities	n/a
41	Extended Response	3	Geometry	8.G10 Draw the image of a figure under a translation	n/a
42	Extended Response	3	Measurement	7.M05 Calculate unit price using proportions	n/a
43	Extended Response	3	Geometry	8.G11 Draw the image of a figure under a dilation	n/a
44	Short Response	2	Algebra	8.A12 Apply algebra to determine the measure of angles formed by or contained in parallel lines cut by a transversal and by intersecting lines	n/a
45	Short Response	2	Geometry	8.G03 Calculate the missing angle in a supplementary or complementary pair	n/a