2008 Mathematics Tests Standard and Performance Indicator Map with Answer Key Grade 7

Question	Туре	Points	Strand	Content Performance Indicator	Answer Key
Book 1					
1	Multiple Choice	1	Geometry	6.G10 Identify and plot points in all four quadrants	D
2	Multiple Choice	1	Measurement	7.M02 Convert capacities and volumes within a given system	В
3	Multiple Choice	1	Algebra	6.A04 Solve and explain two-step equations involving whole numbers using inverse operations	В
4	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)	С
5	Multiple Choice	1	Algebra	7.A06 Evaluate formulas for given input values (surface area, rate, and density problems)	В
6	Multiple Choice	1	Number Sense and Operations	7.N02 Recognize the difference between rational and irrational numbers (i.e., explore different approximations of π)	В
7	Multiple Choice	1	Number Sense and Operations	7.N09 Determine multiples and least common multiple of two or more numbers	D
8	Multiple Choice	1	Statistics and Probability	7.S06 Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs, or circle graph)	D
9	Multiple Choice	1	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)	С
10	Multiple Choice	1	Statistics and Probability	7.S10 Predict the outcome of an experiment	В
11	Multiple Choice	1	Number Sense and Operations	7.N11 Simplify expressions using order of operations Note: Expressions may include absolute value and/or integral exponents greater than 0	D
12	Multiple Choice	1	Geometry	7.G01 Calculate the radius or diameter, given the circumference or area of a circle	В
13	Multiple Choice	1	Number Sense and Operations	7.N06 Translate numbers from scientific notation into standard form	A
14	Multiple Choice	1	Statistics and Probability	7.S04 Calculate the range for a given set of data	В
15	Multiple Choice	1	Algebra	6.A03 Translate two-step verbal equations into algebraic equations	A
16	Multiple Choice	1	Statistics and Probability	7.S12 Compare actual results to predicted results	С

2008 Mathematics Tests Standard and Performance Indicator Map with Answer Key Grade 7 (continued)

Question	Туре	Points	Strand	Content Performance Indicator	Answer Key		
Book 1 (continued)							
17	Multiple Choice	1	Number Sense and Operations	7.N18 Identify the two consecutive whole numbers between which the square root of a non-perfect square whole number less than 225 lies (with and without the use of a number line)	В		
18	Multiple Choice	1	Statistics and Probability	7.S10 Predict the outcome of an experiment	D		
19	Multiple Choice	1	Measurement	7.M04 Convert mass within a given system	В		
20	Multiple Choice	1	Number Sense and Operations	7.N08 Find the common factors and greatest common factor of two or more numbers	С		
21	Multiple Choice	1	Statistics and Probability	7.S06 Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs, or circle graph)	В		
22	Multiple Choice	1	Statistics and Probability	7.S08 Interpret data to provide the basis for predictions and to establish experimental probabilities	D		
23	Multiple Choice	1	Measurement	7.M11 Estimate surface area	D		
24	Multiple Choice	1	Statistics and Probability	6.S10 Determine the probability of dependent events	С		
25	Multiple Choice	1	Number Sense and Operations	7.N12 Add, subtract, multiply, and divide integers	В		
26	Multiple Choice	1	Number Sense and Operations	7.N07 Compare numbers written in scientific notation	В		
27	Multiple Choice	1	Measurement	7.M09 Determine the tool and technique to measure with an appropriate level of precision: mass	D		
28	Multiple Choice	1	Statistics and Probability	7.S09 Determine the validity of sampling methods to predict outcomes	A		
29	Multiple Choice	1	Measurement	7.M02 Convert capacities and volumes within a given system	D		
30	Multiple Choice	1	Geometry	7.G03 Identify the two-dimensional shapes that make up the faces and bases of three-dimensional shapes (prisms, cylinders, cones, and pyramids)	A		

2008 Mathematics Tests Standard and Performance Indicator Map with Answer Key Grade 7 (continued)

Question	Туре	Points	Strand	Content Performance Indicator	Answer Key			
Book 2								
31	Extended Response	3	Number Sense and Operations	7.N13 Add and subtract two integers (with and without the use of a number line)	n/a			
32	Short Response	2	Algebra	6.A05 Solve simple proportions within context	n/a			
33	Short Response	2	Algebra	7.A01 Translate two-step verbal expressions into algebraic expressions	n/a			
34	Extended Response	3	Statistics and Probability	6.S03 Construct Venn diagrams to sort data	n/a			
35	Extended Response	3	Geometry	7.G02 Calculate the volume of prisms and cylinders, using a given formula and calculator	n/a			
36	Short Response	2	Number Sense and Operations	7.N10 Determine the prime factorization of a given number and write in exponential form	n/a			
37	Short Response	2	Measurement	7.M08 Draw central angles in a given circle using a protractor (circle graphs)	n/a			
38	Extended Response	3	Statistics and Probability	6.S02 Record data in a frequency table	n/a			