2009 Mathematics Tests Standard and Performance Indicator Map with Answer Key
Grade 7

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1					
1	Multiple Choice	1	Number Sense and Operations	7.N01 Distinguish between the various subsets of real numbers (counting/natural numbers, whole numbers, integers, rational numbers, and irrational numbers)	A
2	Multiple Choice	1	Number Sense and Operations	7.N07 Compare numbers written in scientific notation	C
3	Multiple Choice	1	Algebra	7.A06 Evaluate formulas for given input values (surface area, rate, and density problems)	C
4	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
5	Multiple Choice	1	Measurement	7.M04 Convert mass within a given system	C
6	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)	C
7	Multiple Choice	1	Statistics and Probability	7.S09 Determine the validity of sampling methods to predict outcomes	D
8	Multiple Choice	1	Number Sense and Operations	7.N06 Translate numbers from scientific notation into standard form	B
9	Multiple Choice	1	Measurement	7.M09 Determine the tool and technique to measure with an appropriate level of precision: mass	A
10	Multiple Choice	1	Number Sense and Operations	7.N12 Add, subtract, multiply, and divide integers	D
11	Multiple Choice	1	Measurement	7.M02 Convert capacities and volumes within a given system	C
12	Multiple Choice	1	Statistics and Probability	7.S08 Interpret data to provide the basis for predictions and to establish experimental probabilities	C
13	Multiple Choice	1	Algebra	7.A06 Evaluate formulas for given input values (surface area, rate, and density problems)	B

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1 (continued)					
14	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
15	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)	C
16	Multiple Choice	1	Number Sense and Operations	7.N15 Recognize and state the value of the square root of a perfect square (up to 225)	B
17	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)	B
18	Multiple Choice	1	Statistics and Probability	7.S04 Calculate the range for a given set of data	C
19	Multiple Choice	1	Measurement	7.M11 Estimate surface area	B
20	Multiple Choice	1	Number Sense and Operations	7.N08 Find the common factors and greatest common factor of two or more numbers	C
21	Multiple Choice	1	Statistics and Probability	7.S12 Compare actual results to predicted results	D
22	Multiple Choice	1	Algebra	7.A01 Translate two-step verbal expressions into algebraic expressions	A
23	Multiple Choice	1	Number Sense and Operations	7.N12 Add, subtract, multiply, and divide integers	B
24	Multiple Choice	1	Measurement	7.M02 Convert capacities and volumes within a given system	D
25	Multiple Choice	1	Statistics and Probability	7.S12 Compare actual results to predicted results	A
26	Multiple Choice	1	Geometry	7.G01 Calculate the radius or diameter, given the circumference or area of a circle	C
27	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
28	Multiple Choice	1	Measurement	7.M03 Identify customary and metric units of mass	D
29	Multiple Choice	1	Algebra	6.A03 Translate two-step verbal sentences into algebraic equations	B

Book 1 (continued)					
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)	B
Book 2					
31	Short Response	2	Statistics and Probability	6.S09 List possible outcomes for compound events	n/a
32	Short Response	2	Algebra	6.A05 Solve simple proportions within context	n/a
33	Short Response	2	Algebra	6.A02 Use substitution to evaluate algebraic expressions (may include exponents of one, two and three)	n/a
34	Short Response	2	Number Sense and Operations	7.N05 Write numbers in scientific notation	n/a
35	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
36	Extended Response	3	Measurement	7.M02 Convert capacities and volumes within a given system	n/a
37	Extended Response	3	Geometry	7.G07 Find a missing angle when given angles of a quadrilateral	n/a
38	Extended Response	3	Statistics and Probability	6.S02 Record data in a frequency table	n/a