

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 5**

Question	Type	Points	Strand	Content Performance Indicator
Book 1				
1	Multiple Choice	1	Measurement	5.M04 Identify equivalent metric units of length
2	Multiple Choice	1	Geometry	5.G05 Know that the sum of the interior angles of a quadrilateral is 360 degrees
3	Multiple Choice	1	Algebra	5.A05 Solve and explain simple one-step equations using inverse operations involving whole numbers
4	Multiple Choice	1	Number Sense and Operations	5.N03 Understand the place value structure of the base ten number system 10 ones = 1 ten 10 tens = 1 hundred 10 hundreds = 1 thousand 10 thousands = 1 ten thousand 10 ten thousands = 1 hundred thousand 10 hundred thousands = 1 million
5	Multiple Choice	1	Number Sense and Operations	5.N17 Use a variety of strategies to divide three-digit numbers by one- and two-digit numbers; Note: Division by anything greater than a two-digit divisor should be done using technology
6	Multiple Choice	1	Measurement	5.M03 Measure to the nearest centimeter
7	Multiple Choice	1	Number Sense and Operations	5.N09 Compare fractions using $<$, $>$, or $=$
8	Multiple Choice	1	Statistics and Probability	4.S02 Collect data using observations, surveys, and experiments and record appropriately
9	Multiple Choice	1	Geometry	5.G04 Classify quadrilaterals by properties of their angles and sides
10	Multiple Choice	1	Number Sense and Operations	5.N04 Create equivalent fractions, given a fraction
11	Multiple Choice	1	Geometry	5.G08 Find a missing angle when given two angles of a triangle
12	Multiple Choice	1	Measurement	5.M07 Calculate elapsed time in hours and minutes
13	Multiple Choice	1	Number Sense and Operations	5.N24 Round numbers to the nearest hundredth and up to 10,000
14	Multiple Choice	1	Measurement	5.M11 Justify the reasonableness of estimates

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 5 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
15	Multiple Choice	1	Statistics and Probability	5.S03 Calculate the mean for a given set of data and use to describe a set of data.
16	Multiple Choice	1	Number Sense and Operations	5.N14 Identify the factors of a given number
17	Multiple Choice	1	Number Sense and Operations	5.N05 Compare and order fractions including unlike denominators (with and without the use of a number line); Note: Commonly used fractions such as those that might be indicated on ruler, measuring cup, etc.
18	Multiple Choice	1	Geometry	4.G06 Draw and identify intersecting, perpendicular, and parallel lines
19	Multiple Choice	1	Algebra	5.A06 Evaluate the perimeter formula for given input values
20	Multiple Choice	1	Number Sense and Operations	5.N02 Compare and order numbers to millions
21	Multiple Choice	1	Geometry	5.G02 Identify pairs of similar triangles
22	Multiple Choice	1	Measurement	5.M05 Convert measurement within a given system
23	Multiple Choice	1	Number Sense and Operations	5.N25 Estimate sums and differences of fractions with like denominators
24	Multiple Choice	1	Algebra	5.A02 Translate simple verbal expressions into algebraic expressions
25	Multiple Choice	1	Number Sense and Operations	5.N19 Simplify fractions to lowest terms
26	Multiple Choice	1	Measurement	5.M08 Measure and draw angles using a protractor
27	Multiple Choice	1	Number Sense and Operations	5.N16 Use a variety of strategies to multiply three-digit by three-digit numbers; Note: Multiplication by anything greater than a three-digit multiplier/multiplicand should be done using technology
28	Multiple Choice	1	Geometry	5.G08 Find a missing angle when given two angles of a triangle
29	Multiple Choice	1	Number Sense and Operations	5.N27 Justify the reasonableness of answers using estimation
30	Multiple Choice	1	Measurement	5.M06 Determine the tool and technique to measure with an appropriate level of precision: lengths and angles
31	Multiple Choice	1	Number Sense and Operations	5.N23 Use a variety of strategies to add, subtract, multiply, and divide decimals to thousandths
32	Multiple Choice	1	Geometry	5.G02 Identify pairs of similar triangles
33	Multiple Choice	1	Number Sense and Operations	5.N07 Express ratios in different forms
34	Multiple Choice	1	Measurement	5.M01 Use a ruler to measure to the nearest inch, 1/2, 1/4, and 1/8 inch

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 5 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
35	Multiple Choice	1	Geometry	5.G11 Identify and draw lines of symmetry of basic geometric shapes
36	Multiple Choice	1	Algebra	5.A07 Create and explain patterns and algebraic relationships (e.g., 2,4,6,8...) algebraically: $2n$ (doubling)
37	Multiple Choice	1	Geometry	5.G05 Know that the sum of the interior angles of a quadrilateral is 360 degrees
38	Multiple Choice	1	Geometry	5.G01 Calculate the perimeter of regular and irregular polygons
39	Multiple Choice	1	Statistics and Probability	5.S02 Display data in a line graph to show an increase or decrease over time
40	Multiple Choice	1	Number Sense and Operations	5.N01 Read and write whole numbers to millions
41	Multiple Choice	1	Geometry	5.G10 Identify corresponding parts of congruent triangles
Book 2				
42	Short Response	2	Geometry	5.G11 Identify and draw lines of symmetry of basic geometric shapes
43	Short Response	2	Number Sense and Operations	5.N15 Find the common factors and the greatest common factor of two numbers
44	Short Response	2	Geometry	4.G07 Identify points and rays when drawing angles
45	Short Response	2	Algebra	5.A08 Create algebraic or geometric patterns using concrete objects or visual drawings (e.g., rotate and shade geometric shapes)
46	Extended Response	3	Algebra	5.A01 Define and use appropriate terminology when referring to constants, variables, and algebraic expressions
47	Extended Response	3	Measurement	5.M07 Calculate elapsed time in hours and minutes
48	Extended Response	3	Number Sense and Operations	5.N10 Compare decimals using $<$, $>$, or $=$
49	Extended Response	3	Statistics and Probability	5.S02 Display data in a line graph to show an increase or decrease over time