NEW--2009

VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO
MOVING WITH MATH EXTENSIONS GRADE 4

		Student Book	Skill Builders
	NUMBER AND NUMBER SENSE		
4.1	The student will		
a.	identify orally and in writing the place value for each digit in a whole number expressed through millions;	4	6-1
b.	compare two whole numbers expressed through millions, using symbols (>, <, or =); and	5	2-1
c.	round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand.	9, 10	7-1, 8-1
4.2	The student will		
a.	compare and order fractions and mixed numbers;	47	32-1
b.	represent equivalent fractions; and		
c.	identify the division statement that represents a fraction.		
4.3	The student will		
a.	read, write, represent, and identify decimals expressed through thousandths;		
b.	round decimals to the nearest whole number, tenth, and hundredth;		
c.	compare and order decimals; and		
d.	given a model, write the decimal and fraction equivalents.		
	COMPUTATION AND ESTIMATION		
4.4	The student will		
a.	estimate sums, differences, products, and quotients of whole numbers;	22, 34	
b.	add, subtract, and multiply whole numbers;	13-20, 25-33	10-1, 11-1, 12-1, 15-1, 17-1, 21-1, 21-2
c.	divide whole numbers, finding quotients with and without remainders; and	40-43	26-1, 27-1
d.	solve single-step and multistep addition, subtraction, and multiplication problems with whole numbers.	36, 44	48-1, 49-1
4.5	The student will		
a.	determine common multiples and factors, including least common multiple and greatest common factor;		
b.	add and subtract with fractions having like and unlike denominators that are limited to 2, 3, 4, 5, 6, 8, 10, and 12, and simplify the resulting fractions, using common multiples and factors;	49, 50	33-1, 33-2, 34-1

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c.	add and subtract with decimals; and		24	47-1
d.	solve single-step and multistep practical problems involving addition and subtraction with fractions and with decimals.			
	MEASUREMENT			
4.6	The student will			
a.	estimate and measure weight/mass and describe the results in U.S. Customary and metric units as appropriate; and			
b.	identify equivalent measurements between units within the U.S. Customary system (ounces, pounds, and tons) and between units within the metric system (grams and kilograms).			44-1
4.7	The student will			
a.	estimate and measure length, and describe the result in both metric and U.S. Customary units; and		57	
b.	identify equivalent measurements between units within the U.S. Customary system (inches and feet; feet and yards; inches and yards; yards and miles) and between units within the metric system (millimeters and centimeters; centimeters and meters; and millimeters and meters).		58, 59	45-1
4.8	The student will			
a.	estimate and measure liquid volume and describe the results in U.S. Customary units; and			
b.	identify equivalent measurements between units within the U.S. Customary system (cups, pints, quarts, and gallons).			44-1
4.9	The student will determine elapsed time in hours and minutes within a 12-hour period.		56	41-2
	GEOMETRY			
4.10	The student will			
a.	identify and describe representations of points, lines, line segments, rays, and angles, including endpoints and vertices; and		51, 52	35-1
b.	identify representations of lines that illustrate intersection, parallelism, and perpendicularity.		53	37-1
4.11	The student will			
a.	investigate congruence of plane figures after geometric transformations such as reflection, translation, and rotation, using mirrors, paper folding, and tracing; and		54	39-1
b.	recognize the images of figures resulting from geometric transformations, such as translation, reflection, and rotation.			
4.12	The student will			
a.	define polygon; and			39-2
b.	identify polygons with 10 or fewer sides.			39-2
	PROBABILITY AND STATISTICS			
4.13	The student will			

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a.	predict the likelihood of an outcome of a simple event; and		50-4, 50-7
b.	represent probability as a number between 0 and 1, inclusive.		50-4
4.14	The student will collect, organize, display, and interpret data from a variety of graphs.	63, 64	50-1 to 50-3
	PATTERNS, FUNCTIONS, AND ALGEBRA		
4.15	The student will recognize, create, and extend numerical and geometric patterns.		3-1
4.16	The student will		
a.	recognize and demonstrate the meaning of equality in an equation; and		49-2
b.	investigate and describe the associative property for addition and multiplication.	12	9-2