NEW--2009

VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO *MOVING WITH MATH EXTENSIONS GRADE 6*

		Student Book	Skill Builders
	NUMBER AND NUMBER SENSE		
6.1	The student will describe and compare data, using ratios, and will use appropriate notations, such as *a/b, a to b,* and *a:b*.		
6.2	The student will		
a.	investigate and describe fractions, decimals, and percents as ratios;		
b.	identify a given fraction, decimal, or percent from a representation;	35	
c.	demonstrate equivalent relationships among fractions, decimals, and percents; and	40	30-1
d.	compare and order fractions, decimals, and percents.	25, 38, 39	13-1, 24-1
6.3	The student will		
a.	identify and represent integers;		
b.	order and compare integers; and		
c.	identify and describe absolute value of integers.		
6.4	The student will demonstrate multiple representations of multiplication and division of fractions.		
6.5	The student will investigate and describe concepts of positive exponents and perfect squares.		
	COMPUTATION AND ESTIMATION		
6.6	The student will		
a.	multiply and divide fractions and mixed numbers; and	32-34	19-1, 20-1
b.	estimate solutions and then solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions.	26, 48	45-3
6.7	The student will solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of decimals.	44, 45, 49	27-1, 28-1, 43-1
6.8	The student will evaluate whole number numerical expressions, using the order of operations.		
	MEASUREMENT		

		Student Book		Skill Builders
6.9	The student will make ballpark comparisons between measurements in the U.S. Customary System of measurement and measurements in the metric system.			
6.10	The student will			
a.	define pi as the ratio of the circumference of a circle to its diameter;			
b.	solve practical problems involving circumference and area of a circle, given the diameter or radius;			
c.	solve practical problems involving area and perimeter; and	56, 57		
d.	describe and determine the volume and surface area of a rectangular prism.	58		
	GEOMETRY			
6.11	The student will			
a.	identify the coordinates of a point in a coordinate plane; and	61		
b.	graph ordered pairs in a coordinate plane.			
6.12	The student will determine congruence of segments, angles, and polygons.			
6.13	The student will describe and identify properties of quadrilaterals.			
	PROBABILITY AND STATISTICS			
6.14	The student, given a problem situation, will			
a.	construct circle graphs;			
b.	draw conclusions and make predictions, using circle graphs; and			
c.	compare and contrast graphs that present information from the same data set.			
6.15	The student will			
a.	describe mean as balance point; and			
b.	decide which measure of center is appropriate for a given purpose.			
6.16	The student will			
a.	compare and contrast dependent and independent events; and			
b.	determine probabilities for dependent and independent events.			47-2
	PATTERNS, FUNCTIONS, AND ALGEBRA			
6.17	The student will identify and extend geometric and arithmetic sequences.			44-1
6.18	The student will solve one-step linear equations in one variable involving whole number coefficients and positive rational solutions.			
6.19	The student will investigate and recognize			
a.	the identity properties for addition and multiplication;			
b.	the multiplicative property of zero; and			
c.	the inverse property for multiplication.			
6.20	The student will graph inequalities on a number line.			