Math Teachers Press, Inc.

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VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO
MOVING WITH MATH EXTENSIONS 2nd Edition GRADE 4

		Lesson Plan/ Student Book	Skill Builders
	NUMBER AND NUMBER SENSE		
4.1	The student will		
a.	read, write, and identify the place and value of each digit in a nine-digit whole number;		
b.	compare and order whole numbers expressed through millions; and	4	2-1, 2-2
c.	round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand.		8-2
4.2	The student will		
a.	compare and order fractions and mixed numbers, with and without models;	37, 38	32-1, 32-2, 32-6, 32-7
b.	represent equivalent fractions; and	67, 68	32-3, 32-4, 32-5, 32-8, 32-9, 32-10
c.	identify the division statement that represents a fraction, with models and in context.		
4.3	The student will		
a.	read, write, represent, and identify decimals expressed through thousandths;	44, 45	57-1, 57-2, 57-6
b.	round decimals to the nearest whole number;		
c.	compare and order decimals; and	46, 73	57-3, 60-1
d.	given a model, write the decimal and fraction equivalents.	44, 45, 71, 72	57-1, 57-2, 57-6
	COMPUTATION AND ESTIMATION		
4.4	The student will		
a.	demonstrate fluency with multiplication facts through 12 x 12, and the corresponding division facts;	20-22, 29-33	20-1, 20-2, 20-3, 25-1, 25-4, 25-5
b.	estimate and determine sums, differences, and products of whole numbers;	11-16, 18, 20-28	10-1, 10-2, 10-3, 10-4, 12-1, 12-2, 13-1, 15-1, 15-2, 16-1, 17-1, 17-2, 18-1, 20-1, 20-2, 20-3, 21-1 to 21-4, 22-1, 23-1, 23-2
c.	estimate and determine quotients of whole numbers, with and without remainders; and	29-35	25-4, 26-1, 26-2, 27-1, 27-2, 28-1

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d.	create and solve single-step and multistep practical problems involving addition, subtraction, and multiplication, and single-step practical problems involving division with whole numbers.	11, 13, 15-20, 23-30, 32-35	10-1 to 10-4, 12-1, 12-2, 15-1, 15-3, 15-4, 16-1, 17-1, 17-2, 20-1, 20-4, 21-1, 21-3, 21-4, 22-1, 23-1, 23-2, 25-1, 25-4, 25-6, 26-1, 26-2, 27-1, 27-2, 28-1, 48-1, 49-1
4.5	The student will		
a.	determine common multiples and factors, including least common multiple and greatest common factor;	65	55-1, 55-2
b.	add and subtract fractions and mixed numbers having like and unlike denominators; and	40-43, 74	33-1, 33-2, 34-1, 34-2
d.	solve single-step practical problems involving addition and subtraction with fractions and mixed numbers.	41-43	33-1, 33-2, 34-1, 34-2
4.6	The student will		
a.	add and subtract decimals; and	74	47-1, 47-2, 60-2
b.	solve single-step and multistep practical problems involving addition and subtraction with decimals.	74	47-1, 47-2, 60-2
	MEASUREMENT AND GEOMETRY		
4.7	The student will solve practical problems that involve determining perimeter and area in U.S. Customary and metric units.	58, 60	46-1, 46-5
4.8	The student will		
a.	estimate and measure length and describe the result in U.S. Customary and metric units;	55	43-1
b.	estimate and measure weight/mass and describe the results in U.S. Customary and metric units;	57	44-1
c.	given the equivalent measure of one unit, identify equivalent measures of length, weight/mass, and liquid volume between units within the U.S. Customary system; and	56, 57	44-1, 44-2, 44-5
d.	solve practical problems that involve length, weight/mass, and liquid volume in U.S. Customary units.	56, 57	44-1 to 44-4
4.9	The student will solve practical problems related to elapsed time in hours and minutes within a 12-hour period.	54	41-1
4.10	The student will		
a.	identify and describe points, lines, line segments, rays, and angles, including endpoints and vertices; and	47, 48, 77	35-1, 35-2, 52-1, 59-1
b.	identify and describe intersecting, parallel, and perpendicular lines.	49	37-1, 37-2
4.11	The student will identify, describe, compare, and contrast plane and solid figures according to their characteristics (number of angles, vertices, edges, and the number and shape of faces), using concrete models and pictorial representations.	50, 53	39-2, 40-1
4.12	The student will classify quadrilaterals as parallelograms, rectangles, squares, rhombi, and/or trapezoids.	80	59-2, 59-6
	PROBABILITY AND STATISTICS		
4.13	The student will		
a.	determine the likelihood of an outcome of a simple event;		
b.	represent probability as a number between 0 and 1, inclusive; and		

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c.	create a model or practical problem to represent a given probability.		
4.14	The student will		
a.	collect, organize, and represent data in bar graphs and line graphs;	63, 64	
b.	interpret data represented in bar graphs and line graphs; and	63, 64	50-1
c.	compare two different representations of the same data (e.g., a set of data displayed on a chart and a bar graph, a chart and a line graph, or a pictograph and a bar graph).	63	
	PATTERNS, FUNCTIONS, AND ALGEBRA		
4.15	The student will identify, describe, create, and extend patterns found in objects, pictures, numbers, and tables.	6	3-1, 3-2, 3-3, 3-5, 3-6, 3-7
4.16	The student will recognize and demonstrate the meaning of equality in an equation.	10, 11, 17	9-1, 9-2, 15-4