



Math Teachers Press, Inc.

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2016 VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH FOUNDATIONS LEVEL B - GRADE 4

		B1 <i>Numeration, Addition & Subtraction</i> Teacher Guide Page/Student Book Page and Skill Builders (SB)	B2 <i>Multiplication & Division Basic Facts</i> Teacher Guide Page/Student Book Page and Skill Builders (SB)	B3 <i>Multiplication & Division - Problem Solving</i> Teacher Guide Page/Student Book Page and Skill Builders (SB)	B4 <i>Fractions, Decimals, Geometry, Measurement</i> Teacher Guide Page/Student Book Page and Skill Builders (SB)
	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;	18 SB: 6-4			
b.	compare and order whole numbers expressed through millions; and	5, 6, 16, 19 SB: 2-1, 2-2, 2-3, 2-4			
c.	round whole numbers expressed through millions to the nearest thousand, ten thousand, and hundred thousand.	26 SB: 8-3			
4.2	The student will				
a.	compare and order fractions and mixed numbers, with and without models;				4, 12, 13, 15, 20 SB: 32-1, 32-2, 32-4
b.	represent equivalent fractions; and				11, 14 SB: 32-3
c.	identify the division statement that represents a fraction, with models and in context.				SB: 30-8
4.3	The student will				

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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.		2-4, 19, 21-28, 33, 34, 36, 37, 41-45, 50, 52, 56, 57, 61-65, 67, 68, 72-77 SB: 20-2, 20-3, 20-4, 20-8, 20-12, 20-13, 20-18, 22-1, 24-1, 25-1, 25-2, 25-7, 25-8 to 25-12, 26-2, 26-3, 26-4, 26-6, 29-1, 47-7	2, 3, 5, 10, 14, 15, 17-19, 21, 22, 26-33, 36, 41, 42, 46, 47, 50, 52, 56, 57, 59, 60, 63, 64, 69-75 SB: 20-19, 20-22, 20-25, 20-27, 20-39, 21-4, 23-4, 25-19, 26-9 to 26-13, 27-1, 27-2, 47-9	
4.5	The student will				
a.	determine common multiples and factors, including least common multiple and greatest common factor;			37, 38 SB: 25-15, 25-16	
b.	add and subtract fractions and mixed numbers having like and unlike denominators; and				17-19, 21, 22 SB: 33-1 to 33-5, 33-10, 34-1, 34-2, 34-3, 34-5, 34-6
d.	solve single-step practical problems involving addition and subtraction with fractions and mixed numbers.				17, 19 SB: 33-3, 33-4, 34-1, 34-2, 34-4
4.6	The student will				
a.	add and subtract decimals; and	58 SB: 47-2, 47-3			
b.	solve single-step and multistep practical problems involving addition and subtraction with decimals.	58 SB: 47-3			SB: 47-17, 47-18
	MEASUREMENT AND GEOMETRY				
4.7	The student will solve practical problems that involve determining perimeter and area in U.S. Customary and metric units.				70 SB: 46-4
4.8	The student will				

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a.	estimate and measure length and describe the result in U.S. Customary and metric units;				56, 57, 62 SB: 43-1, 43-2, 43-3, 43-4, 43-5
b.	estimate and measure weight/mass and describe the results in U.S. Customary and metric units;				59, 64 SB: 45-2
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				58, 59, 60 SB: 44-1, 44-22, 45-1, 45-2
d.	solve practical problems that involve length, weight/mass, and liquid volume in U.S. Customary units.				58, 59, 61
4.9	The student will solve practical problems related to elapsed time in hours and minutes within a 12-hour period.				51 SB: 41-2
4.10	The student will				
a.	identify and describe points, lines, line segments, rays, and angles, including endpoints and vertices; and				29, 30, 31 SB: 35-1 to 35-5
b.	identify and describe intersecting, parallel, and perpendicular lines.				33 SB: 36-2, 36-3
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.				35-38, 46-48 SB: 37-3 to 37-8, 40-1, 40-3, 40-4
4.12	The student will classify quadrilaterals as parallelograms, rectangles, squares, rhombi, and/or trapezoids.				39 SB: 37-6
	PROBABILITY AND STATISTICS				
4.13	The student will				

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a.	determine the likelihood of an outcome of a simple event;				74, 75 SB: 49-5, 49-6
b.	represent probability as a number between 0 and 1, inclusive; and				SB: 49-5
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;	68-70 SB: 50-4	49 SB: 50-6		
b.	interpret data represented in bar graphs and line graphs; and	68, 70 SB: 50-3, 50-4			
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).	68			
	PATTERNS, FUNCTIONS, AND ALGEBRA				
4.15	The student will identify, describe, create, and extend patterns found in objects, pictures, numbers, and tables.	8-11 SB: 3-2		14 SB: 3-4	
4.16	The student will recognize and demonstrate the meaning of equality in an equation.	29, 38, 41, 52, 53 SB: 14-2, 19-2		78 SB: 29-3	