



Math Teachers Press, Inc.

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VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH® INTERMEDIATE/MIDDLE (IM) GRADE 5

		IM1 <i>Number, Reasoning & Data</i> Lesson Plan/ Student Book Skill Builders (SB)	IM2 <i>Fractions, Decimals & Percent</i> Lesson Plan/ Student Book Skill Builders (SB)	IM3 <i>Geometry, Measurement, Graphing</i> Lesson Plan/ Student Book Skill builders (SB)
	NUMBER AND NUMBER SENSE			
5.1	The student, given a decimal through thousandths, will round to the nearest whole number, tenth or hundredth.		52, 53 SB: 51-1 to 51-4	
5.2	The student will			
a.	represent and identify equivalencies among fractions and decimals, with and without models; and		42-44, 47 SB: 21-1, 21-3, 23-2, 25-1 to 25-4	
b.	compare and order fractions, mixed numbers, and/or decimals, in a given set, from least to greatest and greatest to least.		10, 11, 49, 50, 51 SB: 13-1, 13-2, 13-5, 24-1 to 24-3	
5.3	The student will			
a.	identify and describe the characteristics of prime and composite numbers; and	14, 15 SB: 4-1, 4-2		
b.	identify and describe the characteristics of even and odd numbers.	15		
	COMPUTATION AND ESTIMATION			
5.4	The student will create and solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of whole numbers.	22-26, 29-47, 49, 50, 53-58 SB: 6-1, 6-2, 7-1 to 7-4, 8-1 to 8-5, 8-7, 9-1 to 9-3, 10-2, 10-4, 10-7, 45-4, 45-6, 45-8 to 45-12, 45-16		
5.5	The student will			
a.	estimate and determine the product and quotient of two numbers involving decimals; and		57-65 SB: 27-1 to 27-6, 28-1 to 28-7	

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b.	create and solve single-step and multistep practical problems involving addition, subtraction, and multiplication of decimals, and create and solve single-step practical problems involving division of decimals.		54-57, 59-62, 64-66 SB: 26-2, 26-3, 26-4, 27-2 to 27-6, 28-2, 28-3, 28-5, 28-6, 45-2, 45-5, 45-7	
5.6	The student will			
a.	solve single-step and multistep practical problems involving addition and subtraction with fractions and mixed numbers; and		14-17, 19-23, 26, 27 SB: 15-1, 15-2, 15-3, 16-1, 16-2, 16-4, 17-1, 17-2, 17-3, 18-1, 18-2, 45-1, 45-3, 45-8, 45-10, 45-11, 45-14	
b.	solve single-step practical problems involving multiplication of a whole number, limited to 12 or less, and a proper fraction, with models.		30, 31, 32 SB: 19-2, 19-3, 19-4, 19-5	
5.7	The student will simplify whole number numerical expressions using the order of operations.	22 SB: 5-4, 5-6, 5-8		
	MEASUREMENT AND GEOMETRY			
5.8	The student will			
a.	solve practical problems that involve perimeter, area and volume in standard units of measure; and			41, 44, 47, 50, 53 SB: 38-11, 39-2, 39-3, 39-5, 39-7
b.	differentiate among perimeter, area, and volume and identify whether the application of the concept of perimeter, area, or volume is appropriate for a given situation.			50 SB: 38-8, 38-11
5.9	The student will			
a.	given the equivalent measure of one unit, identify equivalent measurements within the metric system; and			33, 35, 37 SB: 36-6, 41-2, 42-2
b.	solve practical problems involving length, mass, and liquid volume using metric units.			33, 35, 37 SB: 42-2
5.10	The student will identify and describe the diameter, radius, chord, and circumference of a circle.			13, 14 SB: 35-1, 35-2

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5.11	The student will solve practical problems related to elapsed time in hours and minutes within a 24-hour period.			28, 38, 39 SB: 40-3
5.12	The student will classify and measure right, acute, obtuse, and straight angles.			5, 6 SB: 33-1, 37-2, 37-3
5.13	The student will			
a.	classify triangles as right, acute, or obtuse and equilateral, scalene, or isosceles; and			8 SB: 34-3
b.	investigate the sum of the interior angles in a triangle and determine an unknown angle measure.			25, 26 SB: 55-1, 55-3
5.14	The student will			
a.	recognize and apply transformations, such as translation, reflection, and rotation; and			20 SB: 60-4
b.	investigate and describe the results of combining and subdividing polygons.			47-49 SB: 38-5, 60-5
	PROBABILITY AND STATISTICS			
5.15	The student will determine the probability of an outcome by constructing a sample space or using the Fundamental (Basic) Counting Principle.		73, 75 SB: 57-1, 57-2, 57-3, 58-1	
5.16	The student, given a practical problem, will			
a.	represent data in line plots and stem-and-leaf plots;			66, 75 SB: 47-3, 47-7
b.	interpret data represented in line plots and stem-and-leaf plots; and			66, 75 SB: 47-3, 47-7
c.	compare data represented in a line plot with the same data represented in a stem-and-leaf plot.			
5.17	The student, given a practical context, will			
a.	describe the mean, median, and mode as measures of center;	60 SB: 46-3		65 SB: 46-1
b.	describe mean as fair share;	59, 60 SB: 46-1		
c.	describe the range of a set of data as a measure of spread; and	60		65
d.	determine the mean, median, mode, and range of a set of data.	59-62 SB: 46-2, 46-3, 46-4, 46-5		65 SB: 46-1

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	PATTERNS, FUNCTIONS, AND ALGEBRA			
5.18	The student will identify, describe, create, express, and extend number patterns found in objects, pictures, numbers and tables.	73-76 SB: 44-1 to 44-3, 44-5, 44-6		21, 22 SB: 44-1 to 44-4, 44-6
5.19	The student will			
a.	investigate and describe the concept of a variable;	70 SB: 56-4		
b.	write an equation to represent a given mathematical relationship, using a variable;	50, 71 SB: 45-12, 45-16, 56-1, 56-3, 56-4		
c.	use an expression with a variable to represent a given verbal expression involving one operation; and	70 SB: 56-5		
d.	create a problem situation based on a given equation, using a single variable and one operation.	42	15, 31	