



Math Teachers Press, Inc.

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VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH-BY-TOPIC LEVEL C - Grade 5

		Lesson Plan/ Student Book	Skill Builders
NUMBER AND NUMBER SENSE			
5.1	The student, given a decimal through thousandths, will round to the nearest whole number, tenth or hundredth.	CII: 75	23-4
5.2	The student will		
a.	represent and identify equivalencies among fractions and decimals, with and without models; and	CII: 76	21-1, 21-2, 21-3, 22-1, 25-1 to 25-3
b.	compare and order fractions, mixed numbers, and/or decimals, in a given set, from least to greatest and greatest to least.	CII: 16, 28, 72, 74	13-1, 24-1, 24-2
5.3	The student will		
a.	identify and describe the characteristics of prime and composite numbers; and	CI: 18, 19	4-1, 4-2
b.	identify and describe the characteristics of even and odd numbers.		
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.	CI: 39-41, 46, 49, 54, 67-72, 74-76	45-2, 45-4, 45-5, 45-8
5.5	The student will		
a.	estimate and determine the product and quotient of two numbers involving decimals; and	CII: 81-94	27-1 to 27-3, 28-1 to 28-4
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.	CII: 78, 80, 86, 88, 90, 91, 92, 94	26-1, 26-2, 27-1, 27-3, 28-1, 28-2, 45-11, 45-12
5.6	The student will		
a.	solve single-step and multistep practical problems involving addition and subtraction with fractions and mixed numbers; and	CII: 30, 31, 33-35, 37, 39, 42-45, 47, 58	15-1, 15-3, 15-4, 15-5, 16-1, 16-2, 16-4, 17-3, 18-1, 18-2
b.	solve single-step practical problems involving multiplication of a whole number, limited to 12 or less, and a proper fraction, with models.	CII: 50, 51	19-3, 45-9
5.7	The student will simplify whole number numerical expressions using the order of operations.		
MEASUREMENT AND GEOMETRY			
5.8	The student will		
a.	solve practical problems that involve perimeter, area and volume in standard units of measure; and	CIII: 39-50	38-1 to 38-6, 39-2, 39-4

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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.	CIII: 45, 50	38-5, 38-6, 39-4
5.9	The student will		
a.	given the equivalent measure of one unit, identify equivalent measurements within the metric system; and	CIII: 35, 55, 57	36-6, 41-2, 42-2
b.	solve practical problems involving length, mass, and liquid volume using metric units.	CIII: 35, 55, 57	42-2
5.10	The student will identify and describe the diameter, radius, chord, and circumference of a circle.	CIII: 22	35-1
5.11	The student will solve practical problems related to elapsed time in hours and minutes within a 24-hour period.	CIII: 53	
5.12	The student will classify and measure right, acute, obtuse, and straight angles.	CIII: 12, 13, 36-38	33-1, 37-1, 37-2
5.13	The student will		
a.	classify triangles as right, acute, or obtuse and equilateral, scalene, or isosceles; and	CIII: 15, 16	34-2
b.	investigate the sum of the interior angles in a triangle and determine an unknown angle measure.		
5.14	The student will		
a.	recognize and apply transformations, such as translation, reflection, and rotation; and		
b.	investigate and describe the results of combining and subdividing polygons.	CIII: 19	
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.		47-4
5.16	The student, given a practical problem, will		
a.	represent data in line plots and stem-and-leaf plots;		
b.	interpret data represented in line plots and stem-and-leaf plots; and		
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;		
b.	describe mean as fair share;		
c.	describe the range of a set of data as a measure of spread; and		
d.	determine the mean, median, mode, and range of a set of data.	CI: 58, 59	46-1, 46-2
PATTERNS, FUNCTIONS, AND ALGEBRA			
5.18	The student will identify, describe, create, express, and extend number patterns found in objects, pictures, numbers and tables.	CI: 72 CIII: 61, 62	44-1, 44-2, 44-3
5.19	The student will		
a.	investigate and describe the concept of a variable;	CI: 68	
b.	write an equation to represent a given mathematical relationship, using a variable;	CI: 68, 74	45-5

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c.	use an expression with a variable to represent a given verbal expression involving one operation; and		
d.	create a problem situation based on a given equation, using a single variable and one operation.		
	CI: Numeration & Problem Solving with Whole Numbers		
	CII: Fractions, Decimals & Percent		
	CIII: Geometry & Measurement		