



# Math Teachers Press, Inc.

4850 Park Glen Road, Minneapolis, MN 55416  
 phone (800) 852-2435 fax (952) 546-7502

## 2016 VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH EXTENSIONS 2nd Edition GRADE 6

		Lesson Plan/ Student Book	Skill Builders
<b>NUMBER AND NUMBER SENSE</b>			
<b>6.1</b>	The student will represent relationships between quantities using ratios, and will use appropriate notations, such as $a/b$ , $a$ to $b$ , and $a:b$ .	53, 54	12-4, 12-5
<b>6.2</b>	The student will		
<b>a.</b>	represent and determine equivalencies among fractions, mixed numbers, decimals, and percents; and	23, 33, 42	14-1, 25-1, 25-2, 25-3, 29-1, 30-1
<b>b.</b>	compare and order positive rational numbers.	22, 36	13-1, 24-1
<b>6.3</b>	The student will		
<b>a.</b>	identify and represent integers;	60, 61, 65	53-3, 53-5
<b>b.</b>	compare and order integers; and	62	53-1
<b>c.</b>	identify and describe absolute value of integers.	67	53-4, 53-6
<b>6.4</b>	The student will recognize and represent patterns with whole number exponents and perfect squares.	5	4-2, 4-3
<b>COMPUTATION AND ESTIMATION</b>			
<b>6.5</b>	The student will		
<b>a.</b>	multiply and divide fractions and mixed numbers;	28-31	19-1, 19-2, 20-1, 20-2, 20-3
<b>b.</b>	solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions and mixed numbers; and	24-31	15-1, 16-1, 16-2, 17-1, 17-2, 18-1, 19-1, 19-2, 20-1, 20-2, 20-3, 45-1, 45-2
<b>c.</b>	solve multistep practical problems involving addition, subtraction, multiplication, and division of decimals.	37-41	26-1, 26-2, 26-3, 27-1, 27-2, 28-1, 28-2, 45-3
<b>6.6</b>	The student will		
<b>a.</b>	add, subtract, multiply, and divide integers;	68-71	54-1 to 54-4
<b>b.</b>	solve practical problems involving operations with integers; and	68, 69	54-1, 54-2
<b>c.</b>	simplify numerical expressions involving integers.		
<b>MEASUREMENT AND GEOMETRY</b>			
<b>6.7</b>	The student will		
<b>a.</b>	derive $\pi$ (pi);	88	38-9
<b>b.</b>	solve problems, including practical problems, involving circumference and area of a circle; and	88	35-2, 38-9
<b>c.</b>	solve problems, including practical problems, involving area and perimeter of triangles and rectangles.	48, 49, 50, 85	38-1, 38-2, 38-3, 38-5, 38-7, 38-8
<b>6.8</b>	The student will		
<b>a.</b>	identify the components of the coordinate plane; and	63	44-2

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<b>b.</b>	identify the coordinates of a point and graph ordered pairs in a coordinate plane.	63	44-2
<b>6.9</b>	The student will determine congruence of segments, angles, and polygons.		
<b>PROBABILITY AND STATISTICS</b>			
<b>6.10</b>	The student, given a practical situation, will		
<b>a.</b>	represent data in a circle graph;		
<b>b.</b>	make observations and inferences about data represented in a circle graph; and		
<b>c.</b>	compare circle graphs with the same data represented in bar graphs, pictographs, and line plots.		
<b>6.11</b>	The student will		
<b>a.</b>	represent the mean of a data set graphically as the balance point; and		
<b>b.</b>	determine the effect on measures of center when a single value of a data set is added, removed, or changed.		
<b>PATTERNS, FUNCTIONS, AND ALGEBRA</b>			
<b>6.12</b>	The student will		
<b>a.</b>	represent a proportional relationship between two quantities, including those arising from practical situations;	54, 55, 80-84	12-3, 12-4
<b>b.</b>	determine the unit rate of a proportional relationship and use it to find a missing value in a ratio table;	81	
<b>c.</b>	determine whether a proportional relationship exists between two quantities; and		12-3, 52-2
<b>d.</b>	make connections between and among representations of a proportional relationship between two quantities using verbal descriptions, ratio tables, and graphs.	80-84	52-3
<b>6.13</b>	The student will solve one-step linear equations in one variable, including practical problems that require the solution of a one-step linear equation in one variable.	75, 76	56-2, 56-3, 56-7
<b>6.14</b>	The student will		
<b>a.</b>	represent a practical situation with a linear inequality in one variable; and	75	
<b>b.</b>	solve one-step linear inequalities in one variable, involving addition or subtraction, and graph the solution on a number line.	79	57-1