



# Math Teachers Press, Inc.

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## West Virginia Mathematics Content Standards Correlated to *Moving with Math Intermediate/Middle (IM) Grade 5*

		IM1 <i>Number, Reasoning &amp; Data Student Book Skill Builders (SB)</i>	IM2. <i>Fractions, Decimals &amp; Percent Student Book Skill Builders (SB)</i>	IM3 <i>Geometry, Measurement &amp; Graphing Student Book Skill Builders (SB)</i>
<b>STANDARD 1. NUMBER AND OPERATIONS</b>				
<b>M.O.5.1.1</b>	read, write, order and compare all whole numbers, fractions, mixed numbers and decimals using multiple strategies (e.g., symbols, manipulatives, number line)	Throughout	Throughout	Throughout
<b>M.O.5.1.2</b>	demonstrate an understanding of place value of each digit utilizing standard and expanded form in any whole number using powers of 10	Throughout	<b>SB:</b> 1-1, 2-1, 3-1, 6-1, 7-1, 8-1, 9-1	<b>SB:</b> 1-1, 2-1, 3-1
<b>M.O.5.1.3</b>	estimate solutions to problems involving ;whole numbers, decimals, fractions, and percents to determine reasonableness using benchmarks	27-30, 46, 48, 51-54 <b>SB:</b> 45-7, 45-8, 45-13, 49-1, 49-2, 50-1 to 50-3	12, 24-27, 36, 56, 65, 66 <b>SB:</b> 18-3, 18-4, 19-4, 45-3, 45-5, 45-6, 45-8 to 45-10, 49-1, 50-1, 51-1	6, 14, 33-35 <b>SB:</b> 35-2, 36-3, 37-3, 41-1, 41-2, 42-2, 47-5, 48-3, 49-1, 50-1, 55-1
<b>M.O.5.1.4</b>	use inductive reasoning to identify the divisibility rules of 2, 3, 5, 9 and 10 and apply the rules to solve application problems	15 <b>SB:</b> 4-3 45-17	Throughout	<b>SB:</b> 12-1
<b>M.O.5.1.5</b>	determine and apply greatest common factor and lowest common multiple to write equivalent fractions and to real-world problem situations	13 <b>SB:</b> 4-6	Throughout	<b>SB:</b> 12-1, 52-1
<b>M.O.5.1.6</b>	model and write equivalencies of fractions, decimals, percents and ratios		Throughout	<b>SB:</b> 12-1, 21-1, 22-1, 25-1, 29-1, 30-1, 52-1, 52-2

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<b>M.O.5.1.7</b>	analyze and solve application problems and justify reasonableness of solution in problems involving addition and subtraction of:			
•	fractions and mixed numbers		14-17, 19-23, 25-27, 35, 36 <b>SB:</b> 15-1 to 15-3, 16-1 to 16-4, 17-1 to 17-4, 18-1 to 18-4, 45-1, 45-3, 45-4, 45-8, 45-10, 45-11, 45-13 to 45-15	<b>SB:</b> 15-1, 16-1, 17-1, 18-1, 38-3
•	decimals		54-56, 65, 66 <b>SB:</b> 26-2 to 26-4, 45-2, 45-5, 45-7, 45-9	<b>SB:</b> 38-3, 38-11
<b>M.O.5.1.8</b>	apply the distributive property as it relates to multiplication over addition	21, 31 <b>SB:</b> 5-3, 5-5, 5-7		<b>SB:</b> 5-1
<b>M.O.5.1.9</b>	solve multi-digit whole number division problem using a variety of strategies, including the standard algorithm and justify the solutions	22, 39-50, 52-55, 59-62, 70, 72 <b>SB:</b> 5-4 to 5-6, 5-8 9-1 to 9-5, 10-1 to 10-7, 45-1 to 45-3, 45-6, 45-8 to 45-12, 45-16, 45-17, 46-1 to 46-5, 50-2, 56-3 to 56-5	33-35, 61-64, 66, 71, 72 <b>SB:</b> 5-2, 9-1, 10-1, 10-2, 20-2 to 20-5, 28-1 to 28-7, 45-2, 45-4, 45-6 to 45-9, 45-11, 45-13, 46-1, 53-4, 56-1	58-61, 65 <b>SB:</b> 9-1, 10-1, 20-1, 44-2, 45-1, 46-1, 50-1, 52-2 to 52-5, 56-1
<b>M.O.5.1.10</b>	demonstrate fluency in addition, subtraction, multiplication, and division of whole numbers	Throughout	Throughout	Throughout
<b>M.O.5.1.11</b>	solve real-world problems involving whole numbers, decimals and fraction using multiple strategies and justify the reasonableness by estimation	Throughout	Throughout	Throughout
	<b>STANDARD 2. ALGEBRA</b>			

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<b>M.O.5.2.1</b>	use inductive reasoning to find missing elements in a variety of patterns (e.g., square numbers, arithmetic sequences)	8, 66, 73-78 <b>SB:</b> 2-3, 2-4, 44-1 to 44-6	<b>SB:</b> 24-1, 44-1	21, 22 <b>SB:</b> 25-1, 44-1 to 44-6
<b>M.O.5.2.2</b>	given an input/output model using two operations, determine the rule, output or input	76-78 <b>SB:</b> 44-4, 44-5		74, 31, 34 <b>SB:</b> 44-5, 44-6
<b>M.O.5.2.3</b>	solve simple equations and inequalities using patterns and models of real-world situations, create graphs on number lines of the equations and interpret the results	Throughout	Throughout	Throughout
<b>M.O.5.2.4</b>	model, identify and describe square, prime and composite numbers	14-18 <b>SB:</b> 4-1, 4-2, 4-4, 4-5, 5-8	<b>SB:</b> 4-1 to 4-3	46, 54 <b>SB:</b> 4-1, 38-6, 38-12
	<b>STANDARD 3. GEOMETRY</b>			
<b>M.O.5.3.1</b>	classify and compare triangles by sides and angles; measure the angles of a triangle using a protractor			8, 25, 26, 63, 64 <b>SB:</b> 34-3, 55-3
<b>M.O.5.3.2</b>	construct and analyze three-dimensional shapes using properties (i.e. edges, faces or vertices)			11, 12, 55 <b>SB:</b> 34-6 to 34-8, 39-6
<b>M.O.5.3.3</b>	create a design with more than one line of symmetry			17 <b>SB:</b> 60-1
<b>M.O.5.3.4</b>	construct a circle with a given radius or diameter			13, 14 <b>SB:</b> 35-1, 35-2
<b>M.O.5.3.5</b>	draw a similar figure using a scale, given a real-world situation			62-64 <b>SB:</b> 52-6
	<b>STANDARD 4. MEASUREMENT</b>			
<b>M.O.5.4.1</b>	estimate, measure, compare, order and draw lengths of real objects in parts of an inch up to 1/8 of an inch and millimeters			30, 32, 60, 61 <b>SB:</b> 36-1 to 36-3, 36-5, 36-7, 52-4, 52-5
<b>M.O.5.4.2</b>	model, calculate, and compare area of triangles and parallelograms using multiples strategies (including, but not limited to, formulas)			43-51 <b>SB:</b> 38-4 to 38-11

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<b>M.O.5.4.3</b>	develop strategies (i.e. finding number of same sized units of volume) to determine the volume of a rectangular prism; solve application problems involving estimating or measuring volume of rectangular prisms			52, 53 <b>SB:</b> 39-1 to 39-3, 39-5
<b>M.O.5.4.4</b>	describe the effects on the measurements of a two-dimensional shape (such as its perimeter and area) when the shape is changed in some way, justify changes			
<b>M.O.5.4.5</b>	solve real-world problems requiring conversions within a system of measurement	78 <b>SB:</b> 45-10	59	29, 31, 33-37 <b>SB:</b> 36-4, 36-6, 40-1 to 40-5, 42-1, 42-2
<b>M.O.5.4.6</b>	estimate and/or measure the weight/mass of real objects in ounces, pounds, grams, and kilograms			34-39 <b>SB:</b> 41-1, 41-2, 42-1, 42-2
<b>M.O.5.4.7</b>	collect, record, estimate and calculate elapsed times from real-world situations (with and without technology)			28 <b>SB:</b> 40-1 to 40-3
<b>M.O.5.4.8</b>	determine the actual measurements of a figure from a scale drawing, using multiple strategies			60, 61 <b>SB:</b> 52-4 to 52-5
	<b>STANDARD 5. DATA ANALYSIS AND PROBABILITY</b>			
<b>M.O.5.5.1</b>	construct a sample space and make a hypothesis as to the probability of a real life situation over time, test the prediction with experimentation, and present conclusions (with and without technology)		73-75, 78 <b>SB:</b> 57-1 to 57-5, 58-4	<b>SB:</b> 57-1

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<b>M.O.5.5.2</b>	construct, read, and interpret tables, charts, and graphs including stem and leaf plots to draw reasonable inferences or verify predictions	7, 8, 10, 11, 28, 58, 62, 76-78 <b>SB:</b> 3-1 to 3-3, 43-1, 44-4, 44-5, 45-13, 46-3, 46-5, 49-1, 59-7	7, 37, 38, 48, 55, 58, 63, 72 <b>SB:</b> 6-1, 11-1, 27-4, 28-3, 28-7, 43-1, 45-7, 45-14, 48-1 to 48-3, 49-1, 50-1, 53-3, 57-2	10, 22, 31, 34, 66, 68-76 <b>SB:</b> 44-5, 44-6, 46-1, 47-1 to 47-3, 47-5, 47-6, 48-1 to 48-5
<b>M.O.5.5.3</b>	collect and organize real-world data to construct a circle graph (with and without technology)(, present data and draw conclusions		37, 38 <b>SB:</b> 48-1 to 48-3	76 <b>SB:</b> 48-1
<b>M.O.5.5.4</b>	collect and analyze data using mean, median and mode to determine the best statistical measure	59-62 <b>SB:</b> 46-1 to 46-5, 59-7	<b>SB:</b> 46-1	65, 66, 72, 73, 75 <b>SB:</b> 46-1, 47-5, 47-6, 48-1 to 48-3, 48-5