

Camelot Learning  
Computation  
Correlation to the Michigan Public Schools' Grade Level Content Expectations

Lesson	Quest	Strand	Grade	Code and Expectation
<b>Lessons 1, 2 Addition</b>	How can you use your knowledge of the commutative property to recall basic addition facts?	Number & Operations	1	<b>N.ME.01.08</b> List number facts (partners inside of numbers) for 2 through 10, e.g., $8 = 7 + 1 = 6 + 2 = 5 + 3 = 4 + 4$ ; $10 = 8 + 2 = 2 + 8$ .
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
		Geometry	1	<b>G.SR.01.03</b> Create and describe patterns, such as repeating patterns and growing patterns using number, shape, and size.
<b>Lessons 3, 4 Addition and Subtraction</b>	How can you use the strategy "Make a Ten" to add and subtract facts to 18?	Number & Operations	1	<b>N.ME.01.08</b> List number facts (partners inside of numbers) for 2 through 10, e.g., $8 = 7 + 1 = 6 + 2 = 5 + 3 = 4 + 4$ ; $10 = 8 + 2 = 2 + 8$ .
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
		Number & Operations	1	<b>N.FL.01.16</b> Compute sums and differences through 30 using number facts and strategies, but no formal algorithm.
		Geometry	1	<b>G.SR.01.03</b> Create and describe patterns, such as repeating patterns and growing patterns using number, shape, and size.
<b>Lessons 5, 6 Adding from the left, bridging, counting on, making tens, and doubling</b>	How can you use mental math strategies to find sums and differences without doing the written problems in your head?	Number & Operations	3	<b>N.FL.03.08</b> Use mental strategies to fluently add and subtract two-digit numbers.
		Number & Operations	2	<b>N.FL.02.06</b> Decompose 100 into addition pairs, e.g., $99 + 1$ , $98 + 2 \dots$
		Number & Operations	2	<b>N.FL.02.12</b> Calculate mentally sums and differences involving: three-digit numbers and ones; three-digit numbers and tens; three-digit numbers and hundreds.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to

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				10+10, and solve the related subtraction problems fluently.
<b>Lessons 7, 8 Rounding, estimating, adding and subtracting</b>	How can your knowledge of rounding and estimating help you solve multi-digit addition and subtraction problems?	Number & Operations	4	<b>N.FL.04.34</b> Estimate the answers to calculations involving addition, subtraction, or multiplication.
		Number & Operations	4	<b>N.FL.04.35</b> Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.
		Measurement	3	<b>M.PS.03.11</b> Add and subtract money in dollars and cents.
		Measurement	3	<b>M.PS.03.12</b> Solve applied problems involving money, length, and time.
		Number & Operations	2	<b>N.ME.02.05</b> Express numbers through 999 using place value, e.g., 137 is 1 hundred, 3 tens, and 7 ones; use concrete materials.
		Number & Operations	2	<b>N.FL.02.11</b> Estimate the sum of two numbers with three digits.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 9, 10 Multi-digit addition</b>	How can you use mental math strategies to solve multi-digit whole number strategies in your head?	Number & Operations	3	<b>N.FL.03.07</b> Estimate the sum and difference of two numbers with three digits (sums up to 1,000), and judge reasonableness of estimates.
		Number & Operations	3	<b>N.FL.03.08</b> Use mental strategies to fluently add and subtract two-digit numbers.
		Number & Operations	2	<b>N.FL.02.06</b> Decompose 100 into addition pairs, e.g., $99 + 1$ , $98 + 2 \dots$
		Number & Operations	2	<b>N.FL.02.12</b> Calculate mentally sums and differences involving: three-digit numbers and ones; three-digit numbers and tens; three-digit numbers and hundreds.

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		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 11, 12</b> <b>Addition,</b> <b>subtraction of</b> <b>multi-digit</b> <b>numbers</b>	How does understanding place value help you when you are adding and subtracting numbers that have more than one digit?	Number & Operations	3	<b>N.FL.03.06</b> Add and subtract fluently two numbers through 999 with regrouping and through 9,999 without regrouping.
		Number & Operations	2	<b>N.FL.02.12</b> Calculate mentally sums and differences involving: three-digit numbers and ones; three-digit numbers and tens; three-digit numbers and hundreds.
		Number & Operations	2	<b>N.ME.02.05</b> Express numbers through 999 using place value, e.g., 137 is 1 hundred, 3 tens, and 7 ones; use concrete materials.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 13, 14</b> <b>Place value, order</b>	How can you use your knowledge of place value to help you compare and order large numbers?	Number & Operations	4	<b>N.ME.04.03</b> Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.
		Number & Operations	3	<b>N.ME.03.03</b> Compare and order numbers up to 10,000.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 15, 16</b> <b>Multi-Digit</b> <b>Subtraction and</b> <b>Addition</b>	How can you use your knowledge of place value and basic facts to solve multi-digit subtraction problems?	Number & Operations	4	<b>N.FL.03.06</b> Add and subtract fluently two numbers through 999 with regrouping and through 9,999 without regrouping.
		Number & Operations	3	<b>N.FL.03.07</b> Estimate the sum and difference of two numbers with three digits (sums up to 1,000), and judge reasonableness of estimates.

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		Number & Operations	2	<b>N.ME.02.05</b> Express numbers through 999 using place value, e.g., 137 is 1 hundred, 3 tens, and 7 ones; use concrete materials.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 17, 18 Recognizing Patterns, Solving Problems</b>	How can we use patterns as a problem-solving strategy to generate rules and make predictions?	Geometry	1	<b>G.SR.01.03</b> Create and describe patterns, such as repeating patterns and growing patterns using number, shape, and size.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 19, 20 Addition, subtraction, bar graph</b>	How can we solve addition and subtraction problems using data from bar graphs?	Number & Operations	3	<b>N.FL.03.06</b> Add and subtract fluently two numbers through 999 with regrouping and through 9,999 without regrouping.
		Data and Probability	3	<b>D.RE.03.01</b> Read and interpret bar graphs in both horizontal and vertical forms.
		Data and Probability	3	<b>D.RE.03.02</b> Read scales on the axes and identify the maximum, minimum, and range of values in a bar graph.
		Data and Probability	3	<b>D.RE.03.03</b> Solve problems using information in bar graphs, including comparison of bar graphs.
		Number & Operations	3	<b>N.MR.03.15</b> Given problems that use any one of the four operations with appropriate numbers, represent with objects, words (including “product” and “quotient”), and mathematical statements; solve.
		Number & Operations	1	<b>N.FL.01.12</b> Know all the addition facts up to 10+10, and solve the related subtraction problems fluently.
<b>Lessons 21, 22</b>	How can you use your	Number & Operations	3	<b>N.ME.03.04</b> Count orally by 6’s, 7’s, 8’s, and 9’s

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<b>Multiplication</b>	knowledge of doubling a number to help you master multiplication facts?	Number & Operations	3	starting with 0, making the connection between repeated addition and multiplication. <b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
		Number & Operations	2	<b>N.MR.02.14</b> Represent multiplication using area and array models.
		Number & Operations	2	<b>N.MR.02.17</b> Develop strategies for fluently multiplying numbers up to $5 \times 5$ .
<b>Lessons 23, 24 Multiplication, Addition</b>	How can you use skip counting by multiples to find patterns on the hundreds chart and identify relationships among the patterns?	Number & Operations	4	<b>N.ME.04.05</b> List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole number.
		Number & Operations	3	<b>N.ME.03.04</b> Count orally by 6's, 7's, 8's, and 9's starting with 0, making the connection between repeated addition and multiplication.
		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
		Number & Operations	2	<b>N.ME.02.04</b> Count orally by 3's and 4's starting with 0, and by 2's, 5's, and 10's starting from any whole number.
		Geometry	1	<b>G.SR.01.03</b> Create and describe patterns, such as repeating patterns and growing patterns using number, shape, and size.
<b>Lessons 25, 26 Mental Math, Multiplication</b>	How can you use mental math strategies to multiply by multiples of 10 and 100?	Number & Operations	5	<b>N.MR.05.15</b> Multiply a whole number by powers of 10: 0.01, 0.1, 1, 10, 100, 1,000; and identify patterns.
		Number & Operations	4	<b>N.ME.04.05</b> List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole

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		Number & Operations	3	number. <b>N.FL.03.13</b> Mentally calculate simple products and quotients up to a three-digit number by a one-digit number involving multiples of 10, e.g., $500 \times 6$ , or $400 \div 8$ .
		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
<b>Lessons 27, 28 Addition, Division</b>	How can we use our knowledge of addition and division to find the mean distance a marble travels at a given height?	Data and Probability	5	<b>D.AN.05.03</b> Given a set of data, find and interpret the mean (using the concept of fair share) and mode.
		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
		Measurement	3	<b>M.UN.02.01</b> Measure lengths in meters, centimeters, inches, feet, and yards approximating to the nearest whole unit and using abbreviations: cm, m, in, ft, yd.
<b>Lessons 29, 30 Estimating mentally, rounding to compatible numbers, multiplication facts, division</b>	How can you use estimation to help you solve multiplication and division problems?	Number & Operations	5	<b>N.FL.05.16</b> Divide numbers by 10's, 100's, 1,000's using mental strategies.
		Number & Operations	4	<b>N.MR.04.14</b> Solve contextual problems involving whole number multiplication and division.
		Number & Operations	4	<b>N.FL.04.34</b> Estimate the answers to calculations involving addition, subtraction, or multiplication.
		Number & Operations	4	<b>N.FL.04.35</b> Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.
		Number & Operations	4	<b>N.FL.04.36</b> Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.

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		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
<b>Lessons 31, 32</b> <b>Place value, Order</b>	How can you use your knowledge of place value to compare numbers and put them in correct order?	Number & Operations	4	<b>N.ME.04.03</b> Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.
		Number & Operations	3	<b>N.ME.03.03</b> Compare and order numbers up to 10,000.
		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.
<b>Lessons 33, 34</b> <b>Multiplication, Addition, Mental Math</b>	How can you use computational skills of multiplying a 3-digit number by a 2-digit number to solve problems?	Number & Operations	4	<b>N.MR.04.14</b> Solve contextual problems involving whole number multiplication and division.
		Number & Operations	4	<b>N.FL.04.10</b> Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.
		Number & Operations	4	<b>N.FL.04.34</b> Estimate the answers to calculations involving addition, subtraction, or multiplication.
		Number & Operations	4	<b>N.FL.04.35</b> Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.
		Number & Operations	4	<b>N.FL.04.36</b> Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.
		Number & Operations	3	<b>N.FL.03.11</b> Find products fluently up to $10 \times 10$ ; find related quotients using multiplication and division relationships.

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<p><b>Lessons 35, 36</b> <b>Division,</b> <b>estimating,</b> <b>compatible</b> <b>number</b></p>	<p>How can you use computational skills of dividing a 3-digit number by a 2-digit number to solve problems?</p>	<p>Number &amp; Operations Number &amp; Operations Number &amp; Operations Number &amp; Operations Number &amp; Operations Number &amp; Operations</p>	<p>5 5 5 4 4 3</p>	<p><b>N.FL.05.05</b> Solve applied problems involving multiplication and division of whole numbers. <b>N.FL.05.06</b> Divide fluently up to a four-digit number by a two-digit number. <b>N.FL.05.16</b> Divide numbers by 10's, 100's, 1,000's using mental strategies. <b>N.FL.04.35</b> Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations. <b>N.FL.04.36</b> Make appropriate estimations and calculations fluently with whole numbers using mental math strategies. <b>N.FL.03.11</b> Find products fluently up to <math>10 \times 10</math>; find related quotients using multiplication and division relationships.</p>
<p><b>Lessons 37, 38</b> <b>Grids, Points,</b> <b>Ordered pairs</b></p>	<p>How can you use ordered pairs to identify locations on the grid?</p>	<p>Geometry Number &amp; Operations</p>	<p>4 3</p>	<p><b>G.LO.02.07</b> Find and name locations using simple coordinate systems such as maps and first quadrant grids. <b>N.FL.03.11</b> Find products fluently up to <math>10 \times 10</math>; find related quotients using multiplication and division relationships.</p>
<p><b>Lessons 39, 40</b> <b>Multiplication,</b> <b>Division</b></p>	<p>Which strategy can you use to solve multiplication and division problems?</p>	<p>Number &amp; Operations Number &amp; Operations Number &amp; Operations Number &amp; Operations</p>	<p>5 5 5 4</p>	<p><b>N.FL.05.05</b> Solve applied problems involving multiplication and division of whole numbers. <b>N.FL.05.06</b> Divide fluently up to a four-digit number by a two-digit number. <b>N.FL.05.16</b> Divide numbers by 10's, 100's, 1,000's using mental strategies. <b>N.FL.04.10</b> Multiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit</p>

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		Number & Operations	4	<p>multiplication use distributive property to develop meaning for the algorithm.</p> <p><b>N.FL.04.35</b> Know when approximation is appropriate and use it to check the reasonableness of answers; be familiar with common place-value errors in calculations.</p>
		Number & Operations	4	<p><b>N.FL.04.36</b> Make appropriate estimations and calculations fluently with whole numbers using mental math strategies.</p>
		Number & Operations	3	<p><b>N.MR.03.15</b> Given problems that use any one of the four operations with appropriate numbers, represent with objects, words (including “product” and “quotient”), and mathematical statements; solve.</p>
		Number & Operations	3	<p><b>N.FL.03.11</b> Find products fluently up to <math>10 \times 10</math>; find related quotients using multiplication and division relationships.</p>