

Camelot Learning  
Computation  
Correlation to the Hawaii Public Schools' Performance Standards

Lesson Numbers and Quest	Standard	Grade	Code	Benchmarks
<p><b>Lessons 1, 2</b> How can you use your knowledge of the commutative property to recall basic addition facts?</p>	<p><b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other <b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation <b>Standard 9:</b> Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships</p>	<p>3  2  2</p>	<p>MA.3.2.4  MA.2.3.1  MA.2.9.1</p>	<ul style="list-style-type: none"> <li>• Use properties of addition of whole numbers (e.g., associative, commutative) to solve problems</li> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> <li>• Describe and create addition and subtraction number patterns (e.g., [20, 17, 14, ...])</li> </ul>
<p><b>Lessons 3, 4</b> How can you use the strategy “Make a Ten” to add and subtract facts to 18?</p>	<p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation  <b>Standard 10:</b> Patterns, Functions, and Algebra: SYMBOLIC REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations</p>	<p>2  1  1</p>	<p>MA.2.3.1  MA.1.3.2  MA.1.10.1</p>	<ul style="list-style-type: none"> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> <li>• Use a variety of strategies to solve number problems involving addition and subtraction (e.g., comparing sets, counting on, counting backwards, doubles, doubles plus one)</li> <li>• Use objects, pictures, words, and number sentences to represent and solve numerical problem situations involving addition and subtraction</li> </ul>
<p><b>Lessons 5 and 6</b> How can you use mental math strategies to find sums and differences without</p>	<p><b>Standard 9:</b> Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships</p>	<p>3</p>	<p>MA.3.9.3</p>	<ul style="list-style-type: none"> <li>• Identify and describe patterns in a hundreds chart</li> </ul>

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doing the written problems in your head?	<b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	4  2  2	MA.4.3.2  MA.2.3.1  MA.2.3.2	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> <li>• Use a variety of strategies to solve problems involving addition and subtraction of two-digit numbers</li> </ul>
<b>Lessons 7, 8</b> How can your knowledge of rounding and estimating help you solve multi-digit addition and subtraction problems?	<p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p> <p><b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems</p>	4  3  3  2  2	MA.4.3.2  MA.3.3.2  MA.3.3.3  MA.2.3.1  MA.2.1.1	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> <li>• Use a variety of strategies to solve problems involving addition and subtraction of two- and three-digit numbers</li> <li>• Estimate the results of whole-number computations</li> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> <li>• Represent whole numbers up to 1000 in flexible ways (e.g., relating, composing, and decomposing numbers), including the use of tens and hundreds as units</li> </ul>
<b>Lessons 9, 10</b> How can you use mental math strategies to solve multi-digit whole number	<b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	4  3	MA.4.3.2  MA.3.3.2	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> <li>• Use a variety of strategies to solve problems</li> </ul>

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strategies in your head?		3	MA.3.3.3	involving addition and subtraction of two- and three-digit numbers
		2	MA.2.3.1	<ul style="list-style-type: none"> <li>• Estimate the results of whole-number computations</li> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> </ul>
<p><b>Lessons 11, 12</b> How does understanding place value help you when you are adding and subtracting numbers that have more than one digit?</p>	<p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p> <p><b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems</p>	4	MA.4.3.2	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> </ul>
		3	MA.3.3.2	<ul style="list-style-type: none"> <li>• Use a variety of strategies to solve problems involving addition and subtraction of two- and three-digit numbers</li> </ul>
		3	MA.3.3.3	<ul style="list-style-type: none"> <li>• Estimate the results of whole-number computations</li> </ul>
		2	MA.2.3.1	<ul style="list-style-type: none"> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> </ul>
		2	MA.2.1.1	<ul style="list-style-type: none"> <li>• Represent whole numbers up to 1000 in flexible ways (e.g., relating, composing, and decomposing numbers), including the use of tens and hundreds as units</li> </ul>
<p><b>Lessons 13, 14</b> How can you use your knowledge of place value to help you compare and order large numbers?</p>	<p><b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use</p>	2	MA.2.1.1	<ul style="list-style-type: none"> <li>• Represent whole numbers up to 1000 in flexible ways (e.g., relating, composing, and decomposing numbers), including the use of tens and hundreds as units</li> </ul>
		2	MA.2.1.2	<ul style="list-style-type: none"> <li>• Compare whole numbers up to 1000 using words (e.g., greater than, less than, equal to)</li> </ul>
		2	MA.2.3.1	<ul style="list-style-type: none"> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> </ul>

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	computational tools and strategies fluently and, when appropriate, use estimation			
<b>Lessons 15, 16</b> How can you use your knowledge of place value and basic facts to solve multi-digit subtraction problems?	<b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation  <b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems	4	MA.4.3.2	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> <li>• Use a variety of strategies to solve problems involving addition and subtraction of two- and three-digit numbers</li> <li>• Estimate the results of whole-number computations</li> <li>• Recall addition facts and their corresponding subtraction facts up to twenty</li> <li>• Represent whole numbers up to 1000 in flexible ways (e.g., relating, composing, and decomposing numbers), including the use of tens and hundreds as units</li> </ul>
		3	MA.3.3.2	
		3	MA.3.3.3	
		2	MA.2.3.1	
		2	MA.2.1.1	
<b>Lessons 17, 18</b> How can we use patterns as a problem-solving strategy to generate rules and make predictions?	<b>Standard 9:</b> Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships  <b>Standard 10:</b> Patterns, Functions, and Algebra: SYMBOLIC	4	MA.4.9.2	<ul style="list-style-type: none"> <li>• Represent the relationship between quantities in a variety of forms (e.g., manipulatives, tables, pictures, symbols)</li> <li>• Create and describe growing numerical and spatial patterns and generalize a rule for the pattern</li> <li>• Use patterns to solve problem situations involving related quantities in which one quantity changes as the other changes</li> <li>• Identify and describe patterns in a hundreds chart</li> <li>• Model problem situations with objects or manipulatives and use representations (e.g.</li> </ul>
		3	MA.3.9.1	
		3	MA.3.9.2	
		3	MA.3.9.3	
		5	MA.5.10.2	

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	REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations	4	MA.4.10.3	<p>manipulatives and use representations (e.g., graphs, tables, equations) to draw conclusions</p> <ul style="list-style-type: none"> <li>Describe the rate of change numerically and verbally based on data recorded in a table or graph</li> </ul>
<p><b>Lessons 19, 20</b> How can we solve addition and subtraction problems using data from bar graphs?</p>	<p><b>Standard 11:</b> Data Analysis, Statistics, and Probability: FLUENCY WITH DATA: Pose questions and collect, organize, and represent data to answer those questions</p>	4	MA.4.11.2	<ul style="list-style-type: none"> <li>Label the parts of a graph (e.g., axes, scale, legend, title)</li> </ul>
	<p><b>Standard 12:</b> Data Analysis, Statistics, and Probability: STATISTICS: Interpret data using methods of exploratory data analysis</p>	3	MA.3.12.1	<ul style="list-style-type: none"> <li>Interpret data (e.g., tallies, chart, tables, bar graphs, line plots) and state what the representation shows about the set of data</li> </ul>
	<p><b>Standard 13:</b> Data Analysis, Statistics, and Probability: DATA ANALYSIS: Develop and evaluate inferences, predictions, and arguments that are based on data</p>	3	MA.3.13.1	<ul style="list-style-type: none"> <li>Answer questions based on data represented in graphs</li> </ul>
	<p><b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p>	2	MA.2.2.1	<ul style="list-style-type: none"> <li>Recognize situations involving addition and subtraction and represent the situation with a number sentence</li> </ul>
	<p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p>	3	MA.3.3.2	<ul style="list-style-type: none"> <li>Use a variety of strategies to solve problems involving addition and subtraction of two- and three-digit numbers</li> </ul>
		2	MA.2.3.1	<ul style="list-style-type: none"> <li>Recall addition facts and their corresponding subtraction facts up to twenty</li> </ul>
<p><b>Lessons 21, 22</b></p>	<p><b>Standard 2:</b> Numbers and Operations:</p>	4	MA.4.2.2	<ul style="list-style-type: none"> <li>Use associative, commutative, and</li> </ul>

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<p>How can you use your knowledge of doubling a number to help you master multiplication facts?</p>	<p>OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p>	<p>2</p> <p>3</p>	<p>MA.2.2.2</p> <p>MA.3.3.1</p>	<p>distributive properties as they apply to operations involving whole numbers</p> <ul style="list-style-type: none"> <li>• Demonstrate multiplication as repeated addition of equal groups</li> <li>• Recall multiplication facts from <math>0 \times 0</math> to <math>10 \times 10</math></li> </ul>
<p><b>Lessons 23, 24</b> How can you use skip counting by multiples to find patterns on the hundreds chart and identify relationships among the patterns?</p>	<p><b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems</p> <p><b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p> <p><b>Standard 9:</b> Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships</p>	<p>4</p> <p>2</p> <p>3</p> <p>3</p>	<p>MA.4.1.2</p> <p>MA.2.2.2</p> <p>MA.3.3.1</p> <p>MA.3.9.3</p>	<ul style="list-style-type: none"> <li>• Identify and list factors, multiples, prime numbers, and composite numbers</li> <li>• Demonstrate multiplication as repeated addition of equal groups</li> <li>• Recall multiplication facts from <math>0 \times 0</math> to <math>10 \times 10</math></li> <li>• Identify and describe patterns in a hundreds chart</li> </ul>
<p><b>Lessons 25, 26</b> How can you use mental math strategies to multiply by</p>	<p><b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number</p>	<p>4</p>	<p>MA.4.1.2</p>	<ul style="list-style-type: none"> <li>• Identify and list factors, multiples, prime numbers, and composite numbers</li> </ul>

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<p>multiples of 10 and 100?</p>	<p>systems <b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p> <p><b>Standard 9:</b> Patterns, Functions, and Algebra: PATTERNS AND FUNCTIONAL RELATIONSHIPS: Understand various types of patterns and functional relationships</p>	<p>4</p> <p>3</p> <p>4</p>	<p>MA.4.3.2</p> <p>MA.3.3.1</p> <p>MA.4.9.1</p>	<ul style="list-style-type: none"> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> <li>• Recall multiplication facts from <math>0 \times 0</math> to <math>10 \times 10</math></li> <li>• Extend, create, and generalize growing and shrinking numeric and geometric patterns (including multiplication patterns)</li> </ul>
<p><b>Lessons 27, 28</b> How can we use our knowledge of addition and division to find the mean distance a marble travels at a given height?</p>	<p><b>Standard 12:</b> Data Analysis, Statistics, and Probability: STATISTICS: Interpret data using methods of exploratory data analysis</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p> <p><b>Standard 4:</b> Measurement: FLUENCY WITH MEASUREMENT: Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring</p>	<p>5</p> <p>3</p> <p>2</p>	<p>MA.5.12.1</p> <p>MA.3.3.1</p> <p>MA.2.4.1</p>	<ul style="list-style-type: none"> <li>• Determine the range, median, mode, and mean for a data set</li> <li>• Recall multiplication facts from <math>0 \times 0</math> to <math>10 \times 10</math></li> <li>• Measure length using inches, feet, and centimeters</li> </ul>
<p><b>Lessons 29, 30</b> How can you use estimation to help you solve multiplication and division problems?</p>	<p><b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p>	<p>3</p>	<p>MA.3.2.1</p>	<ul style="list-style-type: none"> <li>• Recognize situations involving multiplication and division of whole numbers and represent the situation with a number sentence</li> </ul>

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	<b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	3 4 4	MA.3.3.3 MA.4.3.1 MA.4.3.2	<ul style="list-style-type: none"> <li>Estimate the results of whole-number computations</li> <li>Recall all multiplication facts and the corresponding division facts up to 12 x 12</li> <li>Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> </ul>
<b>Lessons 31, 32</b> How can you use your knowledge of place value to compare numbers and put them in correct order?	<b>Standard 1:</b> Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems <b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	4 2 4	MA.4.1.1 MA.2.1.2 MA.4.3.1	<ul style="list-style-type: none"> <li>Identify place value from ten-thousandths to millions</li> <li>Compare whole numbers up to 1000 using words (e.g., greater than, less than, equal to)</li> <li>Recall all multiplication facts and the corresponding division facts up to 12 x 12</li> </ul>
<b>Lessons 33, 34</b> How can you use computational skills of multiplying a 3-digit number by a 2-digit number to solve problems?	<b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other <b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation	3 3 4 4	MA.3.2.1 MA.3.3.3 MA.4.3.1 MA.4.3.2	<ul style="list-style-type: none"> <li>Recognize situations involving multiplication and division of whole numbers and represent the situation with a number sentence</li> <li>Estimate the results of whole-number computations</li> <li>Recall all multiplication facts and the corresponding division facts up to 12 x 12</li> <li>Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> </ul>
<b>Lessons 35, 36</b>	<b>Standard 2:</b> Numbers and Operations:	3	MA.3.2.1	<ul style="list-style-type: none"> <li>Recognize situations involving</li> </ul>

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<p>How can you use computational skills of dividing a 3-digit number by a 2-digit number to solve problems?</p>	<p>OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p>	<p>3</p> <p>3</p> <p>4</p> <p>4</p>	<p>MA.3.2.3</p> <p>MA.3.3.3</p> <p>MA.4.3.1</p> <p>MA.4.3.2</p>	<p>multiplication and division of whole numbers and represent the situation with a number sentence</p> <ul style="list-style-type: none"> <li>• Demonstrate that multiplication and division of whole numbers can undo each other</li> <li>• Estimate the results of whole-number computations</li> <li>• Recall all multiplication facts and the corresponding division facts up to 12 x 12</li> <li>• Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers</li> </ul>
<p><b>Lessons 37, 38</b> How can you use ordered pairs to identify locations on the grid?</p>	<p><b>Standard 8:</b> Geometry and Spatial Sense: REPRESENTATIONAL SYSTEMS: Select and use different representational systems, including coordinate geometry</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently and, when appropriate, use estimation</p>	<p>4</p> <p>3</p> <p>4</p>	<p>MA.4.8.1</p> <p>MA.3.8.1</p> <p>MA.4.3.1</p>	<ul style="list-style-type: none"> <li>• Use ordered pairs to plot points on a coordinate grid</li> <li>• Use coordinates to locate objects/locations on a grid</li> <li>• Recall all multiplication facts and the corresponding division facts up to 12 x 12</li> </ul>
<p><b>Lessons 39, 40</b> Which strategy can you use to solve multiplication and division problems?</p>	<p><b>Standard 2:</b> Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other</p> <p><b>Standard 3:</b> Numbers and Operations: COMPUTATION STRATEGIES: Use computational tools and strategies fluently</p>	<p>3</p> <p>3</p> <p>3</p> <p>4</p>	<p>MA.3.2.1</p> <p>MA.3.2.3</p> <p>MA.3.3.3</p> <p>MA.4.3.1</p>	<ul style="list-style-type: none"> <li>• Recognize situations involving multiplication and division of whole numbers and represent the situation with a number sentence</li> <li>• Demonstrate that multiplication and division of whole numbers can undo each other</li> <li>• Estimate the results of whole-number computations</li> <li>• Recall all multiplication facts and the</li> </ul>

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	and, when appropriate, use estimation	4	MA.4.3.2	corresponding division facts up to 12 x 12 • Select and use appropriate strategies and/or tools (e.g., mental math, calculators, paper/pencil, standard algorithms) for computing whole numbers
	<b>Standard 10:</b> Patterns, Functions, and Algebra: SYMBOLIC	3	MA.3.10.1	• Model situations that involve multiplication and division of whole numbers using objects/pictures and number sentences
	REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations	2	MA.2.10.1	• Create a word/story problem for a given number sentence