

Camelot Learning Mathematics Program  
 Fractions and Decimals  
 Correlation to the Maryland Public Schools Curriculum Content Standards

Lesson	Quest	Standard	VSC Code	Objectives
<b>Lessons 1, 2</b> Understanding Basic Fraction Concepts	How can you use fractional models to understand wholes and fractional parts?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	3.6.A.2.a  3.6.A.2.b  2.6.C.1.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 3, 4</b> Understanding Fractional Parts of a Whole and a Group	How can fraction benchmarks help you understand fractional parts?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 4.0</b> Knowledge of Statistics  <b>Standard 7.0</b> Processes of Mathematics	4.6.A.2.g  4.6.A.2.c 3.6.A.2.a  3.6.A.2.b  2.6.C.1.a  3.4.A.1.a 3.4.A.1.d  3.4.B.1.a  4.7.C.1.b 4.7.C.1.c	<ul style="list-style-type: none"> <li>• Compare and order fractions and mixed numbers with or without using the symbols (&lt;, &gt;, or =)</li> <li>• Find equivalent fractions</li> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Collect data by conducting surveys</li> <li>• Organize and display data to make single bar graphs using a variety of categories and intervals</li> <li>• Interpret data contained in tables using a variety of categories and intervals</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> </ul>

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			4.7.C.1.d	<ul style="list-style-type: none"> <li>Express solutions using concrete materials</li> </ul>
<b>Lessons 5, 6</b> Learning How to Add Like Fractions	How do you add fractions with like denominators?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	4.6.C.1.e 3.6.A.2.a 3.6.A.2.b 2.6.C.1.a	<ul style="list-style-type: none"> <li>Add and subtract proper fractions and mixed numbers</li> <li>Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> </ul>
		<b>Standard 7.0</b> Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>Express mathematical ideas orally</li> <li>Explain mathematically ideas in written form</li> <li>Express solutions using concrete materials</li> </ul>
<b>Lessons 7, 8</b> Learning How to Subtract Like Fractions	How do you subtract fractions with like denominators?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	4.6.C.1.e 3.6.A.2.a 3.6.A.2.b 2.6.C.1.a	<ul style="list-style-type: none"> <li>Add and subtract proper fractions and mixed numbers</li> <li>Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> </ul>
		<b>Standard 7.0</b> Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>Express mathematical ideas orally</li> <li>Explain mathematically ideas in written form</li> <li>Express solutions using concrete materials</li> </ul>
<b>Lessons 9, 10</b> Understanding Simplest Form Fractions	How can you change a fractional number to its simplest form?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	5.6.A.1.c 4.6.B.1.b 4.6.B.1.c	<ul style="list-style-type: none"> <li>Identify and determine equivalent forms of proper fractions</li> <li>Identify factors</li> <li>Identify multiples</li> </ul>

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			3.6.A.2.a 3.6.A.2.b 3.6.C.1.f	<ul style="list-style-type: none"> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> </ul>
		<b>Standard 7.0</b> Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 11, 12</b> Understanding of Important Fraction Concepts	How can you use factors to change a fractional number to its simplest form?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	5.6.A.1.c 5.6.B.1c 4.6.B.1.c 3.6.A.2.a 3.6.A.2.b 3.6.C.1.f	<ul style="list-style-type: none"> <li>• Identify and determine equivalent forms of proper fractions</li> <li>• Identify the greatest common factor</li> <li>• Identify multiples</li> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Read, write, and represent fractions as parts of a set using symbols, words, and models</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> </ul>
		<b>Standard 7.0</b> Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 13, 14</b> Using Fractions to Express the Probability of an Occurrence	How can you write a fraction to represent the probability of an event?	<b>Standard 5.0</b> Knowledge of Probability	5.5.B.1.a 3.5.A.1.b	<ul style="list-style-type: none"> <li>• Make predictions and express the probability as a fraction</li> <li>• Identify possible outcomes that make up the sample space for a given experiment such as: flipping a coin, spinning a spinner, and rolling a number cube</li> </ul>

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			3.5.B.1.a 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>Describe the probability of an event using words</li> <li>Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>Express mathematical ideas orally</li> <li>Explain mathematical ideas in written form</li> <li>Express solutions using concrete materials</li> </ul>
<b>Lessons 15, 16</b> Writing a Probability as a Fraction	How do you write a fraction to express the probability of an event displayed on a frequency table?	<b>Standard 5.0</b> Knowledge of Probability  <b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 4.0</b> Knowledge of Statistics  <b>Standard 7.0</b> Processes of Mathematics	5.5.B.1.a 3.5.A.1.b 3.5.B.1.a 5.6.A.1.c 3.6.C.1.f 4.4.A.1.b 3.4.B.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>Make predictions and express the probability as a fraction</li> <li>Identify possible outcomes that make up the sample space for a given experiment such as: flipping a coin, spinning a spinner, and rolling a number cube</li> <li>Describe the probability of an event using words</li> <li>Identify and determine equivalent forms of proper fractions</li> <li>Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>Organize and display data in line plots and frequency tables using a variety of categories and sets of data</li> <li>Interpret data contained in tables using a variety of categories and intervals</li> <li>Express mathematical ideas orally</li> <li>Explain mathematical ideas in written form</li> <li>Express solutions using concrete materials</li> </ul>
<b>Lessons 17, 18</b>	How do you write	<b>Standard 6.0</b>	5.6.A.1.a	<ul style="list-style-type: none"> <li>Read, write, or represent fractions or mixed</li> </ul>

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Using Knowledge of Fractions and Computation Skills to Convert Fractions	mixed numbers and improper fractions?	Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.A.2.c 3.6.C.1.f  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• numbers using symbols, models, and words</li> <li>• Find equivalent fractions</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 19, 20</b> Representing, Reading and Writing Decimals to the Hundredths Place	How do you represent tenths to hundredths using place value models?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.A.2.e  2.6.C.1.a  3.6.A.2.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Read, write, or represent decimals using symbols, words, or models</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 21, 22</b> Applying Ideas When Writing a Percentage	How can a fraction and decimal be written as a percent?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	6.6.A.1.c  5.6.A.1.c  2.6.C.1.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Identify and determine equivalent forms of fractions as decimals, as percents, and as ratios</li> <li>• Identify and determine equivalent forms of proper fractions</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 23, 24</b> Using Number Line	How can you use a number line to	<b>Standard 6.0</b> Knowledge of Number	4.6.A.2.h	<ul style="list-style-type: none"> <li>• Compare, order, and describe decimals with or without using the symbols (&lt;, &gt;, or =)</li> </ul>

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to Compare and Order Decimals	compare and order decimals?	Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.A.2.e 3.6.C.1.f  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Read, write, and represent decimals using symbols, words and models</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 25, 26</b> Compare and Order Fractions and Decimals	How can you compare and order fractions and decimals?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	6.6.A.1.d  5.6.A.1.c  5.6.B.1.d  3.6.C.1.f  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Compare and order fractions, decimals alone or mixed together, with and without relational symbols (&lt;, &gt;, =)</li> <li>• Identify and determine equivalent forms of proper fractions</li> <li>• Identify a common multiple and the least common multiple</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 27, 28</b> Using Rounding to Estimate Sums and Differences of Decimals	How can you use rounding to help you estimate sums and differences of decimals?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	5.6.C.2.a  4.6.A.2.h  3.6.C.1.f  2.6.C.1.a	<ul style="list-style-type: none"> <li>• Determine the approximate sum and difference of decimals</li> <li>• Compare, order, and describe decimals with or without using the symbols (&lt;, &gt;, or =)</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Demonstrate proficiency with addition and</li> </ul>

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		<b>Standard 7.0</b> Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	subtraction basic facts using a variety of strategies <ul style="list-style-type: none"> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 29, 30</b> How to Use Place Value Models to Add and Subtract Decimals	How can you use place value models to add and subtract decimals?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.C.1.f 4.6.C.1.g 2.6.C.1.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Add 2 decimals</li> <li>• Subtract decimals</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 31, 32</b> Knowledge of Basic Facts and Place Value	How can equivalent decimals make finding sums and differences of decimals easier?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 1.0</b> Knowledge of Algebra, Patterns, and Functions <b>Standard 7.0</b> Processes of Mathematics	5.6.A.1.c  5.6.C.2.a  4.6.C.1.f 4.6.C.1.g 2.6.C.1.a  3.1.A.1.d  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Identify and determine equivalent forms of proper fractions</li> <li>• Determine the approximate sum and difference of decimals</li> <li>• Add 2 decimals</li> <li>• Subtract decimals</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Complete a function table using a given addition or subtraction rule</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 33, 34</b>	How can you use	<b>Standard 6.0</b>	5.6.C.2.a	<ul style="list-style-type: none"> <li>• Determine the approximate sum and difference</li> </ul>

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Solving Word Problems	your knowledge of decimals to help you solve problems?	Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.C.1.f 4.6.C.1.g 3.6.C.1.c 3.6.C.1.d 3.6.C.1.f  2.6.C.1.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	of decimals <ul style="list-style-type: none"> <li>• Add 2 decimals</li> <li>• Subtract decimals</li> <li>• Solve addition and subtraction word problems</li> <li>• Add and subtract money amounts</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 35, 36</b> Knowledge of Making Change Using Mental Math	How can you use your knowledge of decimals to help you make change?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.6.A.3.a 4.6.A.3.b 3.6.C.1.f  3.6.A.3.a 2.6.C.1.a  4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Compare the value of sets of mixed currency</li> <li>• Determine the change from \$100</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Represent money amounts in different ways</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematically ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 37, 38</b> Rounding Whole Numbers	How can you use rounding to help you estimate and solve money problems?	<b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic	5.6.C.2.a  3.6.C.1.c 3.6.C.1.d	<ul style="list-style-type: none"> <li>• Determine the approximate sum and difference of decimals</li> <li>• Solve addition and subtraction word problems</li> </ul>

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		<b>Standard 7.0</b> Processes of Mathematics	2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Add and subtract money amounts</li> <li>• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>
<b>Lessons 39, 40</b> Relating to the Fractional Parts of the Hour	How can you use what you know about fractions to help you tell time?	<b>Standard 3.0</b> Knowledge of Measurement <b>Standard 6.0</b> Knowledge of Number Relationships and Computation/Arithmetic  <b>Standard 7.0</b> Processes of Mathematics	4.3.C.1.c 4.3.C.2.b 3.6.A.2.a 3.6.C.1.f 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	<ul style="list-style-type: none"> <li>• Determine start time, elapsed time, and end time</li> <li>• Determine equivalent units of time</li> <li>• Read, write, and represent fractions as parts of a single region using symbols, words, and models</li> <li>• Represent multiplication and division basic facts using number sentences, pictures, and drawings</li> <li>• Express mathematical ideas orally</li> <li>• Explain mathematical ideas in written form</li> <li>• Express solutions using concrete materials</li> </ul>