

**Camelot Learning
Scope and Sequence
Fractions and Decimals**

Time: 40 minute Lessons

Lesson	Learning Quest	Concept/Skills	NCTM Standard	NCTM Expectation
<p>Lesson 1: Understand Basic Fraction Concepts</p> <p>Lesson 2: Understand Basic Fraction Concepts Review</p>	<p>How can you use fractional models to understand wholes and fractional parts?</p>	<ul style="list-style-type: none"> • Addition and subtraction facts practice • Use fractional models and parts of a region or set • Recognize and examine a numeric pattern associated with addition and subtraction facts • Represent a fractional part of a whole • Tournament Time explanation 	<p>Number and Operations</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop fluency in adding and subtracting whole numbers • Understand and represent commonly used fractions, such as $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{2}$ • Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 3: Understanding Fractional Parts of a Whole and a Group</p> <p>Lesson 4: Understanding Fractional Parts of a Whole and a Group Review</p>	<p>How can fraction benchmarks help you understand fractional parts?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Use fractional models and parts of a region or set • Identify and compare benchmark fractions to 0, $\frac{1}{2}$ and 1 whole • Analyze frequency in a table or bar graph using knowledge of fractions • Construct a frequency using data collection 	<p>Number and Operations</p> <p>Data Analysis and Probability</p>	<ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Use models, benchmarks, and equivalent forms to judge the size of fractions • Describe parts of the data and the set of data as a whole to determine what the data show • Represent data using tables, pictographs, and bar graphs

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		explanation	Communication	<ul style="list-style-type: none"> • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 9: Understanding Simplest Form</p> <p>Lesson 10: Understanding Simplest Form Review</p>	How can you change a fractional number to its simplest form?	<ul style="list-style-type: none"> • Multiplication facts practice • Use fraction strips and pattern blocks (hexagons) as models for developing a equivalent fractions • Tournament Time explanation 	<p>Number and Operations</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Use models, benchmarks, and equivalent forms to judge the size of fractions • Recognize and generate equivalent forms of commonly used fractions • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 11: Understanding of Important Fraction Concepts</p> <p>Lesson 12:</p>	How can you use factors to change a fractional number to its simplest form?	<ul style="list-style-type: none"> • Use skip counting or multiplication to find common multiplies • Identify the GCF (greatest common factor) • Identify equivalent 	Number and Operations	<ul style="list-style-type: none"> • Recognize equivalent representations for the same number and generate them by decomposing and composing numbers • Recognize and generate equivalent forms of commonly used fractions

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			Communication	<ul style="list-style-type: none"> • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 19: Representing, Reading, and Writing Decimals to the Hundredths Place</p> <p>Lesson 20: Representing, Reading, and Writing Decimals to the Hundredths Place Review</p>	How do you represent tenths to hundredths using place value models?	<ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Read and write decimals • Write fractions as a decimal • Compare fractions and decimals • Change fractions to simplest form 	Number and Operations	<ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Recognize and generate equivalent forms of commonly used fractions and decimals • Explore numbers less than 0 by extending the number line through familiar applications
<p>Lesson 21: Applying Ideas When Writing a Percentage</p> <p>Lesson 22: Applying Ideas When Writing a Percentage Review</p>	How can a fraction and decimal be written as a percent?	<ul style="list-style-type: none"> • Addition facts practice • Express a fraction/decimal as a percent • Read and write decimals • Find equivalent fractions • Identify equivalent fractions • Tournament Time explanation 	Number and Operations	<ul style="list-style-type: none"> • Develop fluency in adding whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Develop an understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers

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			Communication	<ul style="list-style-type: none"> • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents • Explore numbers less than 0 by extending the number line through familiar applications (100 grid) • Recognize equivalent representations for the same number and generate them by decomposing and composing numbers • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 23: Using Number Line to Compare and Order Decimals</p> <p>Lesson 24: Using Number Line to Compare and Order Decimals Review</p>	How can you use a number line to compare and order decimals?	<ul style="list-style-type: none"> • Multiplication facts practice • Use decimal models • Read and write decimals • Compare and order decimals 	Number and Operations	<ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents • Explore numbers less than 0 by extending the number line through familiar applications • Use models, benchmarks, or equivalent forms to judge the size

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				<ul style="list-style-type: none"> • Develop an understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers
<p>Lesson 25: Compare and Order Fractions and Decimals</p> <p>Lesson 26: Compare and Order Fractions and Decimals Review</p>	<p>How can you compare and order fractions and decimals?</p>	<ul style="list-style-type: none"> • Multiplication facts practice • Find equivalent fractions • Read and write decimals • Compare and order decimals and fractions with like and unlike denominators • Tournament Time explanation 	<p>Number and Operations</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents • Explore numbers less than 0 by extending the number line through familiar applications • Use models, benchmarks, or equivalent forms to judge the size • Develop an understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Compare and order fractions, decimals, and percents efficiently and find their location on a number line • Communicate mathematical thinking

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<p>Add and Subtract Decimals</p> <p>Lesson 30: How to Use Place Value Models to Add and Subtract Decimals Review</p>	<p>decimals?</p>	<ul style="list-style-type: none"> • Add and subtract decimals 		<p>of the base-ten number system and be able to represent and compare whole numbers and decimals</p> <ul style="list-style-type: none"> • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals (place value charts, 10 x 10 grids)
<p>Lesson 31: Knowledge of Basic Facts and Place Value</p> <p>Lesson 32: Knowledge of Basic Facts and Place Value Review</p>	<p>How can an equivalent decimal make finding sums and differences of decimals easier?</p>	<ul style="list-style-type: none"> • Addition facts practice • Find equivalent decimals • Add and subtract decimals • Apply a rule to a table 	<p>Number and Operations</p>	<ul style="list-style-type: none"> • Develop fluency in adding whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents
<p>Lesson 33: Solving Word Problems</p> <p>Lesson 34: Solving Word Problems Review</p>	<p>How can you use your knowledge of decimals to help you solve problems?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Read and write decimals • Add and subtract decimals • Calculate money amounts 	<p>Number and Operations</p>	<ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Develop and use strategies to estimate

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		<ul style="list-style-type: none"> • Estimate sums and differences of decimals • Use problem solving strategies • Tournament Time explanation 	<p style="text-align: center;">Problem Solving</p> <p style="text-align: center;">Communication</p>	<p>the results of whole-number computations and to judge the reasonableness of such results</p> <ul style="list-style-type: none"> • Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Build new mathematical knowledge through problem solving • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
Lesson 35: Knowledge of Making Change Using Mental Math	How can you use your knowledge of decimals to help you make change?	<ul style="list-style-type: none"> • Multiplication facts practice • Use decimal models • Reads and write decimals 	Number and Operations	<ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand the place-value structure of the base-ten number system and be

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<p>Lesson 36: Knowledge of Making Change Using Mental Math Review</p>		<ul style="list-style-type: none"> • Adds and subtracts decimals • Calculate money amounts (change) • Tournament Time explanation 	<p>Communication</p>	<p>able to represent and compare whole numbers and decimals</p> <ul style="list-style-type: none"> • Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results • Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 37: Rounding Whole Numbers</p>	<p>How can you use rounding to help you estimate and solve money problems?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Reads and write decimals • Adds and subtracts 	<p>Number and Operations</p>	<ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be

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<p>Lesson 38: Rounding Whole Numbers Review</p>		<p>decimals</p> <ul style="list-style-type: none"> • Calculate money amounts (change) • Rounding decimals (money amounts) • Estimate sums and differences of decimals • Tournament Time explanation 	<p>Problem Solving</p> <p>Communication</p>	<p>able to represent and compare whole numbers and decimals</p> <ul style="list-style-type: none"> • Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results • Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Build new mathematical knowledge through problem solving • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
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