



DESTINATION Math®

**Correlation of Destination Math® Courseware
(Mastering Skills and Concepts Course IV)
to Florida Sunshine State Standards
and Grade Level Expectations
2003**



Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Essentials of Fractions	Learning Objectives in Tutorial
<p>Benchmark: MA. A. 1.3.1 GLE Sixth: Knows word names and standard numerals for whole numbers, fractions, decimals and percents (obj. 1-3)</p>	Recognizing a Fraction	<ol style="list-style-type: none"> 1. Learning that a fraction is a part of a whole through the use of area models 2. Identifies the numerator and denominator of a fraction 3. Identifying fractional parts of a whole number based on a diagram.
<p>MA. A. 1.3.2 GLE Sixth-Eighth: Compares and orders fractions (obj. 1)</p> <p>MA. A. 3.3.3 GLE Seventh: Solves multi-step real world problems involving whole numbers, fractions, or decimals using appropriate methods of computation. (obj. 2)</p> <p>MA. A. 1.3.1 GLE Sixth-eighth: Knows word names and standard numerals for whole numbers, fractions, decimals and percents (Obj. 3, 4, 5, 6)</p> <p>MA. A. 1.3.4 GLE Sixth: Converts a number expressed in one form to its equivalent in another form (obj. 3)</p> <p>MA. A. 3.3.3 GLE Seventh: Solves multi-step real world problems involving whole numbers, fractions, or decimals using appropriate methods of computation. (obj. 7)</p>	Exploring Proper and Improper Fractions	<ol style="list-style-type: none"> 1. Comparing the magnitudes of two or more fractions 2. Adding fractions with like denominators 3. Expressing 1 as equivalent fractions with equal numerators and denominators 4. Identifying proper and improper fractions 5. Writing an integer as a fraction with a denominator of 1 6. Recognizing a fraction as the division of two numbers 7. Using division to express improper fractions as mixed numbers
<p>MA. A. 1.3.1 GLE Sixth-eighth: Knows word names and standard numerals for whole numbers, fractions, decimals and percents (Obj. 1, 2, 3)</p> <p>MA. A. 1.3.2 GLE Sixth-eighth: Compares and orders fractions (obj 4)</p>	Working with Mixed Numbers	<ol style="list-style-type: none"> 1. Identifying mixed numbers 2. Writing a mixed number as an improper fraction 3. Identifying different types of fractions 4. Comparing proper fractions and improper fractions

Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Equivalent Fractions	Learning Objectives in Tutorial
<p>MA. A. 1.3.1 GLE Sixth-eighth: Knows word names and standard numerals for whole numbers, fractions, decimals and percents (Obj. 1, 2, 3)</p>	Identifying the Factors of a Number	<ol style="list-style-type: none"> 1. Identifying a proper fraction and the parts of a fraction 2. Modeling a proper fraction using a circle 3. Finding the factors of a fraction's numerator and denominator 4. Identifying the common factors of a fraction's numerator and denominator
<p>MA. A. 1.3.4 GLE Sixth-eighth: Converts a number expressed in one form to its equivalent in another form (obj. 2, 3)</p>	Expressing Fractions in Lowest Terms	<ol style="list-style-type: none"> 1. Expressing a fraction in lowest terms 2. Naming equivalent fractions 3. Identifying equivalent fractions using circle graphs
<p>MA. A. 1.3.2 GLE Sixth-eighth: Comparing and ordering fractions, decimals (obj. 2)</p>	Writing and Comparing Equivalent Fractions	<ol style="list-style-type: none"> 1. Writing 2 or more fractions with different denominators in terms of the same denominator 2. Comparing fractions with different denominators
Sunshine State Standards: Grade Level Expectations	Unit: Multiplying Fractions	Learning Objectives in Tutorial
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 2, 3, 4)</p> <p>MA. A. 3.3.2 Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 2, 3, 4)</p> <p>MA. A. 1.3.2. GLE Sixth-Eighth: Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 5)</p>	Finding Products of Fractions, Whole Numbers, and Mixed Numbers	<ol style="list-style-type: none"> 1. Writing fractions in lowest terms 2. Multiplying proper fractions and whole numbers 3. Multiplying proper fractions and mixed numbers 4. Multiplying fractions by multiplying numerators together and denominators together 5. Using a number line to compare fractions
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3, 4)</p> <p>MA. A. 3.3.2 Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3, 4)</p>	Using the GCF in Finding Products	<ol style="list-style-type: none"> 1. Multiplying proper fractions and mixed numbers 2. Using the GCF to cancel like factors in a product 3. Multiplying improper fractions and whole numbers 4. Solving multi-step problems involving multiplication of fractions and whole numbers

Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Multiplying Fractions (continued)	Learning Objectives in Tutorial
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3, 4)</p> <p>MA. A. 3.3.2 Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3, 4)</p>	Representing Multiplication	<ol style="list-style-type: none"> 1. Representing the products of proper fractions and mixed numbers using area models 2. Rewriting a multiplication problem in terms of addition 3. Rewriting the product of 2 mixed numbers using the distributive property of multiplication 4. Checking solutions to multiplication problems solved using the distributive property of multiplication
Sunshine State Standards: Grade Level Expectations	Unit: Dividing Fractions	Learning Objectives in Tutorial
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 2, 3, 4)</p> <p>MA. A. 3.3.2 Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 2, 3, 4)</p>	Estimating Quotients of Fractions	<ol style="list-style-type: none"> 1. Setting up a division problem involving mixed numbers and proper fractions 2. Identifying the divisor, dividend, and quotient in a division problem 3. Using a number line to round a fraction to the nearest whole number 4. Estimating the quotient of 2 fractions by rounding each fraction to the nearest whole number
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3)</p>	Using Multiplicative Inverses	<ol style="list-style-type: none"> 1. Finding the multiplicative inverse, or reciprocal, of a number 2. Dividing 2 fractions by multiplying the dividend by the multiplicative inverse of the divisor 3. Interpreting an answer so that it satisfies a condition of the problem
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3, 4)</p>	Solving Missing Value Problems when Dividing Fractions	<ol style="list-style-type: none"> 1. Writing whole numbers as fractions with denominators of 1 2. Dividing whole numbers, mixed numbers, and proper fractions 3. Using trial and error to find an unknown divisor when the dividend and quotient are given 4. Using trial and error to find an unknown dividend when the divisor and quotient are given

Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Adding Fractions	Learning Objectives in Tutorial
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 2, 3, 4)</p>	Adding with Like Denominators	<ol style="list-style-type: none"> 1. Adding mixed numbers and proper fractions with like denominators 2. Using number lines to show addition of mixed numbers and proper fractions 3. Rounding 2 or more mixed numbers to estimate their sum
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 2, 3, 4)</p>	Adding with Unlike Denominators	<ol style="list-style-type: none"> 1. Finding the least common multiple of 2 or more numbers 2. Adding mixed numbers by adding the whole number parts and fractional parts 3. Identifying the least common denominator of 2 or more fractions 4. Rewriting fractions with unlike denominators as fractions 5. with like denominators
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 2, 3, 4)</p>	Solving Missing Value Problems when Adding Fractions	<ol style="list-style-type: none"> 1. Adding mixed numbers with unlike denominators 2. Finding the missing addend in an addition problem 3. Finding the missing addend using the inverse operation of subtraction

Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Subtracting Fractions	Learning Objectives in Tutorial
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1)</p> <p>MA. B. 1.3.1 GLE Sixth: uses concrete and graphic models to create formulas for finding the perimeter and area of plane figures and the volume of rectangular solids (obj. 2, 3)</p>	Subtracting with Like Denominators	<ol style="list-style-type: none"> 1. Subtracting mixed numbers with like denominators 2. Expressing the area of a polygonal region as the sum of the areas of 2 rectangles 3. Expressing the lengths of the sides of a rectangle as differences between given lengths
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3, 4)</p>	Subtracting with Unlike Denominators	<ol style="list-style-type: none"> 1. Subtracting mixed numbers with unlike denominators 2. Calculating the area of a polygonal region
<p>MA. A. 3.3.1 GLE Sixth-Eighth: knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3, 4)</p> <p>MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1, 2, 3, 4)</p>	Solving Missing Value Problems when Subtracting Fractions	<ol style="list-style-type: none"> 1. Subtracting mixed numbers with unlike denominators 2. Checking solutions to subtraction problems 3. Representing subtraction using line segments 4. Finding missing values in subtraction problems

Mastering Skills & Concepts: Course IV / Module 1: Fractions

Sunshine State Standards: Grade Level Expectations	Unit: Essentials of Decimals	Learning Objectives covered in Tutorial
<p>Benchmark: MA. A. 1.3.1 GLE Sixth-Eighth: knows word names and standard numerals for whole numbers fractions, decimals and percents. (obj. 1-5)</p>	<p>Investigating Decimal Place Values</p>	<ol style="list-style-type: none"> 1. Compare the decimal system to some other number systems 2. Identifying place values in the decimal system 3. Expressing mixed numbers as decimals 4. Labeling places to the right of the decimal point as tenths, hundredths, thousandths, and ten-thousandths 5. Using zero as a place holder
<p>Benchmark: MA. B. 1.3.1 GLE Sixth: uses concrete and graphic models to discover an approximation for pi and creates a formula for finding the circumference. (obj. 1)</p> <p>Benchmark: MA. A. 1.3.2 GLE Comparing and ordering fractions and decimals using graphic models, number lines, and symbols (obj. 3)</p>	<p>Rounding Decimals</p>	<ol style="list-style-type: none"> 1. Defining the meaning of pi in terms of a diameter and circumference of a circle 2. Rounding decimal numbers to 2, 3, and 4, decimal places 3. Locating rounded decimal values on a number line
<p>Benchmark: MA. A. 1.3.1 GLE Sixth-Eighth: knows word names and standard numerals for whole numbers fractions, decimals and percents. (obj. 2-4)</p> <p>Benchmark: MA. A. 1.3.2 GLE Comparing and ordering fractions and decimals using graphic models, number lines, and symbols (obj. 5)</p> <p>Benchmark: MA. A. 3.3.2 Sixth-Eighth: Knows the appropriate operation to solve real-world problems involving whole numbers, decimals, and fractions (obj. 1)</p>	<p>Exploring Repeating and Terminating Decimals</p>	<ol style="list-style-type: none"> 1. Using division to write fractions whose denominators are not factors of 10 as equivalent decimals 2. Identifying repeating, non-terminating decimal numbers and non-repeating, non-terminating decimal numbers 3. Recognizing and using symbols to represent repeating and non-repeating, non-terminating decimal numbers 4. Rounding repeating, non-terminating decimal numbers 5. Ordering numbers that have different numbers of decimal places

Mastering Skills & Concepts: Course IV / Module 2: Decimals

Sunshine State Standards: Grade Level Expectations	Adding and Subtracting Decimals	Learning Objectives in Tutorial
<p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 3) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effect of addition, subtraction, multiplication, and division, on whole numbers, decimals, fractions, and mixed numbers. (obj. 1, 2) 	<p>Using Place Value Grids</p>	<ol style="list-style-type: none"> Rounding dollars and cents to the nearest whole dollar amount Using hundredths place value grid to add decimal numbers Arranging terms when adding according to their decimal points and corresponding place value position
<p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 3) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effect of addition, subtraction, multiplication, and division, on whole numbers, decimals, fractions, and mixed numbers. (obj. 1, 2) 	<p>Regrouping with Whole Numbers</p>	<ol style="list-style-type: none"> Subtracting decimals in terms of dollars and cents Arranging terms, when subtracting, according to their decimal points and correspondence place value positions Regrouping whole numbers to subtract decimals
<p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 3) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effect of addition, subtraction, multiplication, and division, on whole numbers, decimals, fractions, and mixed numbers. (obj. 1, 2) 	<p>Regrouping to Hundreths</p>	<ol style="list-style-type: none"> Arranging terms, when subtracting, according to their decimal points and corresponding place value positions Subtracting decimal numbers by regrouping whole numbers, tenths, or/or hundredths

Mastering Skills & Concepts: Course IV / Module 2: Decimals

Sunshine State Standards: Grade Level Expectations	Multiplying Decimals	Learning Objectives in Tutorial
<p>Benchmark MA. A. 2.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the meaning and use of exponential notation. (obj. 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Evaluates numerical expressions that contain exponential notation. (obj. 2, 3) 	Multiplying Decimals by Powers of 10	<ol style="list-style-type: none"> Using fractions to multiply 2-place decimals by 10, 100, and 1,000 Multiplying decimals by rewriting each factor as a fraction and multiplying the fractions Using a shortcut to move the decimal point when multiplying by a power of 10
<p>Benchmark MA. B. 1.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Uses concrete or graphic models to create formulas for finding surface area of prisms and cylinders <p>Eighth Grade</p> <ul style="list-style-type: none"> Uses concrete and graphic models to explore and derive formulas for surface area and volume of three-dimensional regular shapes, including pyramid, prisms, and cones. (obj. 2, 4) 	Calculating Products	<ol style="list-style-type: none"> Using a shortcut to move the decimal point when multiplying by a power of 10 Using scale models to calculate dimensions of a rectangular prism Multiplying decimal factors Recognizing the formula $V = lwh$ for finding the volume of a rectangular prism
<p>Benchmark MA. B. 1.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Uses concrete or graphic models to create formulas for finding surface area of prisms and cylinders <p>Eighth Grade</p> <ul style="list-style-type: none"> Uses concrete and graphic models to explore and derive formulas for surface area and volume of three-dimensional regular shapes, including pyramid, prisms, and cones. (obj. 2, 4) 	Finding the Volume of a Prism	<ol style="list-style-type: none"> Calculating the volume of a rectangular prism Multiplying decimals by rewriting each factor as a fraction and multiplying the fractions Using the correct units when calculating volume

Mastering Skills & Concepts: Course IV / Module 2: Decimals

Sunshine State Standards: Grade Level Expectations	Unit: Dividing Decimals	Learning Objectives in Tutorial
<p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the effect of the four basic operations on whole numbers, fractions, mixed numbers, and decimals. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Knows the effect of the four basic operations on whole numbers, fractions, mixed numbers, and decimals. (obj. 1, 2) 	<p>Dividing Decimals by Whole Numbers</p>	<ol style="list-style-type: none"> Dividing a decimal number by a whole number Checking the quotient of a division calculation
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, and fractions. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving decimals and fractions using two- or three step problems. (obj. 1, 2) <p>Benchmark MA. A. 4.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Knows appropriate estimation techniques for a given situation using whole numbers, fractions, and decimals. (obj. 4) 	<p>Estimating and Finding Quotients</p>	<ol style="list-style-type: none"> Expressing a decimal denominator as a whole number by multiplying the numerator and denominator of the fraction by a power of 10 Dividing a decimal number by a decimal number Adding zeros to the right of a decimal point to act as place holders in a dividend Estimating an answer when dividing by decimals
<p>Benchmark MA. A. 3.3.3 GLE Sixth Grade</p> <ul style="list-style-type: none"> Solves one- or two-step real-world problems involving whole numbers and decimals using appropriate methods of computation. (obj. 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves multi-step real world problems involving whole numbers, fractions or decimals using appropriate methods of computation, such as mental computation, paper and pencil, and calculator. (obj. 2, 3, 4) 	<p>Dividing by Powers of 10</p>	<ol style="list-style-type: none"> Using the prefix 'kilo' to express metric units of thousands Dividing a decimal number by a power of 10 Expressing a decimal denominator as a whole number by multiplying the numerator and denominator of the fraction by a power of 10 Finding the quotient of a proper fraction

Mastering Skills & Concepts: Course IV / Module 3: Percents

Sunshine State Standards: Grade Level Expectations	Unit: Essentials of Percents	Learning Objectives in Tutorial
<p>Benchmark MA. A. 1.3.4 GLE Sixth Grade</p> <ul style="list-style-type: none"> Converts a number expressed in one form to its equivalent in another form. (obj. 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Expresses a given quantity in a variety of ways (for example, integers, fractions, decimals, numbers expressed as a percent, numbers expressed in scientific notations, ratios). (obj. 2, 3) 	Investigating the Meaning of Percent	<ol style="list-style-type: none"> Comparing the magnitude of 2 fractions whose LCD is 100 Rewriting proper fractions with denominators of 100 as percents Using division to rewrite proper fractions as percents
<p>Benchmark MA. A. 1.3.4 GLE Sixth Grade</p> <ul style="list-style-type: none"> Converts a number expressed in one form to its equivalent in another form. (obj. 2) 	Expressing Percents as Proper Fractions	<ol style="list-style-type: none"> Converting percents less than 100% to fractions Ordering percents by magnitude
<p>Benchmark MA. E. 1.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Constructs, interprets, and explains display of data, such as tables and graphs (circle graphs, single- and multi-bar graphs, and single and multiple-line graphs) and explains how different displays of data lead to different interpretations. (obj. 1) 	Expressing Percents Greater than 100% as Improper Fractions	<ol style="list-style-type: none"> Interpreting and using a pie chart (circle graph) to represent percents Expressing percents greater than 100% as improper fractions
Sunshine State Standards: Grade Level Expectations	Unit: Finding Percents of Quantities	Learning Objectives in Tutorial
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, fractions, and common percents using one or two-step problems. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving percents (for example, discounts, simple interest, taxes, tips). (obj. 1, 2) 	Finding Percents of a Whole	<ol style="list-style-type: none"> Finding the part given the percent and the whole Finding the percent represented by the ratio of a part and a whole
<p>Benchmark MA. A. 1.3.4 GLE Sixth Grade</p> <ul style="list-style-type: none"> Converts a number expressed in one form to its equivalent in another form. (obj. 2) 	Expressing Ratios as Percents	<ol style="list-style-type: none"> Finding the percent represented by the ratio of a part and a whole Expressing a decimal as a percent

Mastering Skills & Concepts: Course IV / Module 3: Percents

Sunshine State Standards: Grade Level Expectations	Unit: Finding Percents of Quantities (continued)	Learning Objectives in Tutorial
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, fractions, and common percents using one or two-step problems. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving percents (for example, discounts, simple interest, taxes, tips). (obj. 1, 2) 	Calculating the Whole from a Part and a Percent	<ol style="list-style-type: none"> Finding the whole given a percent and part Expressing a percent as a decimal
Sunshine State Standards: Grade Level Expectations	Unit: Increasing and Decreasing Percents	
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, fractions, and common percents using one or two-step problems. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving percents (for example, discounts, simple interest, taxes, tips). (obj. 1, 2) 	Calculating Percent Increases	<ol style="list-style-type: none"> Increasing a number by multiplying it by a percent and adding the increase to the original amount Increasing a number by multiplying it by 100% plus the percent increase
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, fractions, and common percents using one or two-step problems. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving percents (for example, discounts, simple interest, taxes, tips). (obj. 1, 2) 	Calculating Percent Decreases	<ol style="list-style-type: none"> Decreasing a number by multiplying it by 100% less the percent decrease Decreasing a number by multiplying it by a percent and subtracting the decrease from the original amount
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the appropriate operations to solve real-world problems involving whole numbers, decimals, fractions, and common percents using one or two-step problems. (obj. 1, 2) <p>Seventh Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving percents (for example, discounts, simple interest, taxes, tips). (obj. 1, 2) 	Calculate Simple Interest	<ol style="list-style-type: none"> Calculate simple interest on a loan using the formula: $\text{Interest} = \text{Principal} \times \text{Rate} \times \text{Time}$ Comparing the interest added to a given principal loaned over 2 separate periods of time

Mastering Skills & Concepts: Course IV / Module 4: Integers & Order of Operations

Sunshine State Standards: Grade Level Expectations	Unit: Adding and Subtracting Signed Numbers	Learning Objectives in Tutorial
<p>Benchmark MA. A. 1.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Knows word names and standard numerals for integers fractions, decimals, and percents. (obj. 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> Knows word names and standard numerals for integers fractions, decimals, and percents. (obj. 3) <p>Benchmark MA. A. 1.3.2 GLE Seventh</p> <ul style="list-style-type: none"> Compares and orders integers, fractions, decimals, numbers with exponents, and numbers expressed as percents or in scientific notation, including ordering on a number line. (obj. 1, 2) <p>Eighth</p> <ul style="list-style-type: none"> Compares and orders integers, fractions, decimals, numbers with exponents, and numbers expressed as percents or in scientific notation, including ordering on a number line. (obj. 1, 2) 	<p>Exploring the Number Line and Absolute Value</p>	<ol style="list-style-type: none"> Plotting negative numbers on a number line Using a number line to represent the meaning of the absolute value of numbers Recognizing integers, whole numbers, and counting numbers
<p>Benchmark MA. A. 3.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers, and integers. (obj. 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3) 	<p>Adding with Absolute Value</p>	<ol style="list-style-type: none"> Finding the sum of 2 or more signed numbers Using a number line to add 2 integers Using absolute value to find the sum of 2 integers
<p>Benchmark MA. A. 3.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers, and integers. (obj. 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3) 	<p>Subtracting with Absolute Value</p>	<ol style="list-style-type: none"> Using a number line to subtract two integers Recognizing subtraction as the addition of opposites

Mastering Skills & Concepts: Course IV / Module 4: Integers & Order of Operations

Sunshine State Standards: Grade Level Expectations	Unit: Multiplying and Dividing Signed Numbers	Learning Objectives in Tutorial
<p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Uses concrete models and real-world examples to explore the inverse relationship of positive and negative numbers. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> • Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers, and integers. (obj. 1, 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> • Knows the effects of four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3) 	<p>Finding Products of Signed Numbers</p>	<ol style="list-style-type: none"> 1. Multiplying integers having unlike signs 2. Multiplying negative integers 3. Using a pattern to discover the rules for multiplying negative integers
<p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Uses concrete models and real-world examples to explore the inverse relationship of positive and negative numbers. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> • Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers, and integers. (obj. 1, 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> • Knows the effects of four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3) 	<p>Representing the Multiplication of Signed Numbers</p>	<ol style="list-style-type: none"> 1. Dividing negative decimals by multiplying the dividend by the inverse of the divisor 2. Writing the multiplicative inverse of a decimal number
<p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Uses concrete models and real-world examples to explore the inverse relationship of positive and negative numbers. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> • Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers, and integers. (obj. 1, 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> • Knows the effects of four basic operations on whole numbers, fractions, mixed numbers, decimals, and integers. (obj. 1, 2, 3) 	<p>Finding Quotients Using Reciprocals</p>	<ol style="list-style-type: none"> 1. Dividing negative decimals 2. Dividing integers having unlike signs

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<p>Benchmark MA. A. 2.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the meaning and use of exponential notation. (obj. 2) Expresses whole numbers in exponential notation or in factored form. (obj. 2) <p>Seventh</p> <ul style="list-style-type: none"> Expresses whole numbers in exponential notation. (obj. 2) <p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Applies order of operation when solving problems. (obj. 1) <p>Seventh Grade</p> <ul style="list-style-type: none"> Applies order of operation when solving problems. (obj. 1) 	<p>Simplifying Expressions</p>	<ol style="list-style-type: none"> Recognizing the order of operations: PEMDAS or “Please Excuse My Dear Aunt Sally” Recognizing the meaning of integer exponents
<p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows and applies the commutative, associative, and distributive properties in the addition and multiplication of rational numbers. (obj. 2) 	<p>Introducing the Distributive Property</p>	<ol style="list-style-type: none"> Writing expressions that represent a given situation Applying the distributive property of multiplication over addition
<p>Benchmark MA. A. 3.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> Applies order of operation when solving problems. (obj. 1) <p>Seventh Grade</p> <ul style="list-style-type: none"> Applies order of operation when solving problems. (obj. 1) 	<p>Using Grouping Symbols</p>	<ol style="list-style-type: none"> Recognizing parentheses, brackets, and fraction bars as grouping symbols Using more than 1 pair of grouping symbols in an expression