

Main Criteria: Washington State K-12 Learning Standards and Guidelines

Secondary Criteria: Mathematics 4

Subject: Mathematics

Grade: 4

Correlation Options: Show All

Washington State K-12 Learning Standards and Guidelines

Mathematics

Grade: 4 - Adopted: 2011

EALR	WA.MP.	Mathematical Practices
BIG IDEA / CORE CONTENT	MP.1.	<p>Make sense of problems and persevere in solving them.</p> <p>Mathematics 4</p> <p>Math 4A-Module 01: Estimation</p> <p>Math 4A-Module 01: Interpretation</p> <p>Math 4A-Module 01: Multiplicative Comparison</p> <p>Math 4A-Module 01: Parts of a Word Problem</p> <p>Math 4A-Module 01: Remainders</p> <p>Math 4A-Module 01: Solving Basic Equations</p> <p>Math 4A-Module 01: Translation Into Equations</p> <p>Math 4A-Module 01: Writing Multiplication</p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 02: Arithmetic Number Patterns</p> <p>Math 4A-Module 02: Basic Patterns</p> <p>Math 4A-Module 02: Common Multiples</p> <p>Math 4A-Module 02: Composite Numbers</p> <p>Math 4A-Module 02: Estimating</p> <p>Math 4A-Module 02: Factoring</p> <p>Math 4A-Module 02: Multiplying by 10 and 100</p> <p>Math 4A-Module 02: Prime Numbers</p> <p>Math 4A-Module 02: Rounding</p> <p>Math 4A-Module 02: T-Charts</p> <p>Math 4A-Module 03: Adding Several Whole Numbers</p> <p>Math 4A-Module 03: Adding Two Whole Numbers</p> <p>Math 4A-Module 03: Expanded Form</p> <p>Math 4A-Module 03: Hundreds Chart</p> <p>Math 4A-Module 03: Re-Grouping</p> <p>Math 4A-Module 03: Rounding to Hundreds and Thousands</p> <p>Math 4A-Module 03: Subtraction Skills</p> <p>Math 4A-Module 03: Subtraction With Zeros</p> <p>Math 4A-Module 04: Application of Division Strategies</p> <p>Math 4A-Module 04: Applications of Multiplication</p>

Math 4A-Module 04: Area Model
Math 4A-Module 04: Clustering
Math 4A-Module 04: Dividing Using Grouping
Math 4A-Module 04: Fraction Parts
Math 4A-Module 04: Fraction Shape
Math 4A-Module 04: Long Division
Math 4A-Module 04: Multiplying with Arrays
Math 4A-Module 04: Regrouping Multiplication
Math 4A-Module 04: Writing Fractions
Math 4A-Module 05: Common Denominators
Math 4A-Module 05: Dividing Number Lines
Math 4A-Module 05: Equivalent Fractions
Math 4A-Module 05: Greatest Common Factor
Math 4A-Module 05: Identifying Fractions on a Number Line
Math 4A-Module 05: Least Common Multiple
Math 4A-Module 06: Adding Like Fractions
Math 4A-Module 06: Adding Mixed Numbers
Math 4A-Module 06: Adding Unlike Fractions
Math 4A-Module 06: Dividing Mixed Numbers
Math 4A-Module 06: Improper Fractions in Mixed Numbers
Math 4A-Module 06: Subtracting Improper Fractions

Math 4A-Module 06: Subtracting Like Fractions
Math 4A-Module 06: Subtracting Mixed Numbers
Math 4A-Module 06: Subtracting Unlike Fractions
Math 4A-Module 06: Dividing Fractions Using Modeling
Math 4A-Module 06: Dividing Fractions Using Reciprocals
Math 4A-Module 06: Dividing Whole Numbers into Fractions
Math 4B-Module 07: Add Tenths and Hundredths
Math 4B-Module 07: Comparing Fractions to Decimals
Math 4B-Module 07: Comparing Tenths and Hundredths
Math 4B-Module 07: Decimals on Number Lines
Math 4B-Module 07: Fraction Multiplication
Math 4B-Module 07: Fraction Multiplication Using Visual Models
Math 4B-Module 07: Fractions With Denominators of 10 and 100
Math 4B-Module 07: Fractions as Decimals
Math 4B-Module 07: Identifying Fractions as Division

Math 4B-Module 07: Multiplying a Whole Number by a Fraction
Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions

Math 4B-Module 08: Compare Decimals Using Area Models
Math 4B-Module 08: Compare Decimals Using Decimal Circles
Math 4B-Module 08: Compare Decimals Using Number Lines
Math 4B-Module 08: Equivalent Measurements of Weight
Math 4B-Module 08: Estimating Measurements of Length
Math 4B-Module 08: Explaining Decimal Comparisons
Math 4B-Module 08: Measuring Weight and Mass
Math 4B-Module 08: Measuring With Inches
Math 4B-Module 08: Measuring and Converting Length Measurements
Math 4B-Module 08: Problem Solving and Estimating Weight
Math 4B-Module 08: Represent Equivalent Measures of Customary Units of Length
Math 4B-Module 08: Weight Conversions
Math 4B-Module 09: Estimating With Money
Math 4B-Module 09: Liters and Milliliters
Math 4B-Module 09: Money Conversions
Math 4B-Module 09: Money as Fractions
Math 4B-Module 09: Solving Elapsed Time Problems
Math 4B-Module 09: Solving Problems With Money
Math 4B-Module 09: Solving Problems With Time Conversions
Math 4B-Module 09: Solving Problems With Time and Distance
Math 4B-Module 09: Solving Problems about Volume
Math 4B-Module 09: Volume Conversions
Math 4B-Module 09: What is Time
Math 4B-Module 10: Angles
Math 4B-Module 10: Angles and Circles
Math 4B-Module 10: Area and Perimeter
Math 4B-Module 10: Area of Rectangles
Math 4B-Module 10: Line Plots
Math 4B-Module 10: Measuring Inches
Math 4B-Module 10: Perimeter of a Rectangle
Math 4B-Module 10: Problem Solving With Line Plots
Math 4B-Module 10: Rays
Math 4B-Module 10: The Rectangle
Math 4B-Module 11: Adding Angles
Math 4B-Module 11: Constructing Angles
Math 4B-Module 11: Drawing Geometric Basics
Math 4B-Module 11: Measuring Angles
Math 4B-Module 11: Subtracting Angles

		<p>Math 4B-Module 11: Two Dimensional Shapes</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p> <p>Math 4B-Module 12: Lines of Symmetry</p> <p>Math 4B-Module 12: Polygons</p> <p>Math 4B-Module 12: Quadrilaterals</p> <p>Math 4B-Module 12: Symmetry in Shapes</p> <p>Math 4B-Module 12: Tessellation</p> <p>Math 4B-Module 12: Triangles</p>
<p>BIG IDEA / CORE CONTENT</p>	<p>MP.2.</p>	<p>Reason abstractly and quantitatively.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Estimation</p> <p>Math 4A-Module 01: Interpretation</p> <p>Math 4A-Module 01: Multiplicative Comparison</p> <p>Math 4A-Module 01: Parts of a Word Problem</p> <p>Math 4A-Module 01: Remainders</p> <p>Math 4A-Module 01: Solving Basic Equations</p> <p>Math 4A-Module 01: Translation Into Equations</p> <p>Math 4A-Module 01: Writing Multiplication</p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 02: Arithmetic Number Patterns</p> <p>Math 4A-Module 02: Basic Patterns</p> <p>Math 4A-Module 02: Common Multiples</p> <p>Math 4A-Module 02: Composite Numbers</p> <p>Math 4A-Module 02: Estimating</p> <p>Math 4A-Module 02: Factoring</p> <p>Math 4A-Module 02: Multiplying by 10 and 100</p> <p>Math 4A-Module 02: Prime Numbers</p> <p>Math 4A-Module 02: Rounding</p> <p>Math 4A-Module 02: T-Charts</p> <p>Math 4A-Module 03: Adding Several Whole Numbers</p> <p>Math 4A-Module 03: Adding Two Whole Numbers</p> <p>Math 4A-Module 03: Expanded Form</p> <p>Math 4A-Module 03: Hundreds Chart</p> <p>Math 4A-Module 03: Re-Grouping</p> <p>Math 4A-Module 03: Rounding to Hundreds and Thousands</p> <p>Math 4A-Module 03: Subtraction Skills</p> <p>Math 4A-Module 03: Subtraction With Zeros</p> <p>Math 4A-Module 04: Application of Division Strategies</p> <p>Math 4A-Module 04: Applications of Multiplication</p> <p>Math 4A-Module 04: Area Model</p> <p>Math 4A-Module 04: Clustering</p>

Math 4A-Module 04: Dividing Using Grouping
Math 4A-Module 04: Fraction Parts
Math 4A-Module 04: Fraction Shape
Math 4A-Module 04: Long Division
Math 4A-Module 04: Multiplying with Arrays
Math 4A-Module 04: Regrouping Multiplication
Math 4A-Module 04: Writing Fractions
Math 4A-Module 05: Common Denominators
Math 4A-Module 05: Dividing Number Lines
Math 4A-Module 05: Equivalent Fractions
Math 4A-Module 05: Greatest Common Factor
Math 4A-Module 05: Identifying Fractions on a Number Line
Math 4A-Module 05: Least Common Multiple
Math 4A-Module 06: Adding Like Fractions
Math 4A-Module 06: Adding Mixed Numbers
Math 4A-Module 06: Adding Unlike Fractions
Math 4A-Module 06: Dividing Mixed Numbers
Math 4A-Module 06: Improper Fractions in Mixed Numbers
Math 4A-Module 06: Subtracting Improper Fractions

Math 4A-Module 06: Subtracting Like Fractions
Math 4A-Module 06: Subtracting Mixed Numbers
Math 4A-Module 06: Subtracting Unlike Fractions
Math 4A-Module 06: Dividing Fractions Using Modeling
Math 4A-Module 06: Dividing Fractions Using Reciprocals
Math 4A-Module 06: Dividing Whole Numbers into Fractions
Math 4B-Module 07: Add Tenths and Hundredths
Math 4B-Module 07: Comparing Fractions to Decimals
Math 4B-Module 07: Comparing Tenths and Hundredths
Math 4B-Module 07: Decimals on Number Lines
Math 4B-Module 07: Fraction Multiplication
Math 4B-Module 07: Fraction Multiplication Using Visual Models
Math 4B-Module 07: Fractions With Denominators of 10 and 100
Math 4B-Module 07: Fractions as Decimals
Math 4B-Module 07: Identifying Fractions as Division

Math 4B-Module 07: Multiplying a Whole Number by a Fraction
Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions
Math 4B-Module 08: Compare Decimals Using Area Models
Math 4B-Module 08: Compare Decimals Using Decimal Circles

Math 4B-Module 08: Compare Decimals Using Number Lines
Math 4B-Module 08: Equivalent Measurements of Weight
Math 4B-Module 08: Estimating Measurements of Length
Math 4B-Module 08: Explaining Decimal Comparisons
Math 4B-Module 08: Measuring Weight and Mass
Math 4B-Module 08: Measuring With Inches
Math 4B-Module 08: Measuring and Converting Length Measurements
Math 4B-Module 08: Problem Solving and Estimating Weight
Math 4B-Module 08: Represent Equivalent Measures of Customary Units of Length
Math 4B-Module 08: Weight Conversions
Math 4B-Module 09: Estimating With Money
Math 4B-Module 09: Liters and Milliliters
Math 4B-Module 09: Money Conversions
Math 4B-Module 09: Money as Fractions
Math 4B-Module 09: Solving Elapsed Time Problems

Math 4B-Module 09: Solving Problems With Money

Math 4B-Module 09: Solving Problems With Time Conversions
Math 4B-Module 09: Solving Problems With Time and Distance
Math 4B-Module 09: Solving Problems about Volume

Math 4B-Module 09: Volume Conversions
Math 4B-Module 09: What is Time
Math 4B-Module 10: Angles
Math 4B-Module 10: Angles and Circles
Math 4B-Module 10: Area and Perimeter
Math 4B-Module 10: Area of Rectangles
Math 4B-Module 10: Line Plots
Math 4B-Module 10: Measuring Inches
Math 4B-Module 10: Perimeter of a Rectangle
Math 4B-Module 10: Problem Solving With Line Plots

Math 4B-Module 10: Rays
Math 4B-Module 10: The Rectangle
Math 4B-Module 11: Adding Angles
Math 4B-Module 11: Constructing Angles
Math 4B-Module 11: Drawing Geometric Basics
Math 4B-Module 11: Measuring Angles
Math 4B-Module 11: Subtracting Angles
Math 4B-Module 11: Two Dimensional Shapes
Math 4B-Module 11: Types of Angles
Math 4B-Module 11: Writing Equations

		<p>Math 4B-Module 12: Lines of Symmetry</p> <p>Math 4B-Module 12: Polygons</p> <p>Math 4B-Module 12: Quadrilaterals</p> <p>Math 4B-Module 12: Symmetry in Shapes</p> <p>Math 4B-Module 12: Tessellation</p> <p>Math 4B-Module 12: Triangles</p>
BIG IDEA / CORE CONTENT	MP.3.	<p>Construct viable arguments and critique the reasoning of others.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 08: Problem Solving and Estimating Weight</p>
BIG IDEA / CORE CONTENT	MP.4.	<p>Model with mathematics.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Estimation</p> <p>Math 4A-Module 01: Interpretation</p> <p>Math 4A-Module 01: Multiplicative Comparison</p> <p>Math 4A-Module 01: Parts of a Word Problem</p> <p>Math 4A-Module 01: Remainders</p> <p>Math 4A-Module 01: Solving Basic Equations</p> <p>Math 4A-Module 01: Translation Into Equations</p> <p>Math 4A-Module 01: Writing Multiplication</p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 02: Arithmetic Number Patterns</p> <p>Math 4A-Module 02: Basic Patterns</p> <p>Math 4A-Module 02: Common Multiples</p> <p>Math 4A-Module 02: Composite Numbers</p> <p>Math 4A-Module 02: Estimating</p> <p>Math 4A-Module 02: Multiplying by 10 and 100</p> <p>Math 4A-Module 02: Prime Numbers</p> <p>Math 4A-Module 02: Rounding</p> <p>Math 4A-Module 02: T-Charts</p> <p>Math 4A-Module 03: Adding Several Whole Numbers</p> <p>Math 4A-Module 03: Adding Two Whole Numbers</p> <p>Math 4A-Module 03: Expanded Form</p> <p>Math 4A-Module 03: Hundreds Chart</p> <p>Math 4A-Module 03: Re-Grouping</p> <p>Math 4A-Module 03: Rounding to Hundreds and Thousands</p> <p>Math 4A-Module 03: Subtraction Skills</p> <p>Math 4A-Module 03: Subtraction With Zeros</p> <p>Math 4A-Module 04: Application of Division Strategies</p> <p>Math 4A-Module 04: Applications of Multiplication</p> <p>Math 4A-Module 04: Area Model</p>

Math 4A-Module 04: Clustering
Math 4A-Module 04: Dividing Using Grouping
Math 4A-Module 04: Fraction Parts
Math 4A-Module 04: Fraction Shape
Math 4A-Module 04: Long Division
Math 4A-Module 04: Multiplying with Arrays
Math 4A-Module 04: Regrouping Multiplication
Math 4A-Module 04: Writing Fractions
Math 4A-Module 05: Common Denominators
Math 4A-Module 05: Dividing Number Lines
Math 4A-Module 05: Equivalent Fractions
Math 4A-Module 05: Greatest Common Factor
Math 4A-Module 05: Identifying Fractions on a Number Line
Math 4A-Module 05: Least Common Multiple
Math 4A-Module 06: Adding Like Fractions
Math 4A-Module 06: Adding Mixed Numbers
Math 4A-Module 06: Adding Unlike Fractions
Math 4A-Module 06: Dividing Mixed Numbers
Math 4A-Module 06: Improper Fractions in Mixed Numbers
Math 4A-Module 06: Subtracting Improper Fractions

Math 4A-Module 06: Subtracting Like Fractions
Math 4A-Module 06: Subtracting Mixed Numbers
Math 4A-Module 06: Subtracting Unlike Fractions
Math 4A-Module 06: Dividing Fractions Using Modeling
Math 4A-Module 06: Dividing Fractions Using Reciprocals
Math 4A-Module 06: Dividing Whole Numbers into Fractions
Math 4B-Module 07: Add Tenths and Hundredths
Math 4B-Module 07: Comparing Fractions to Decimals
Math 4B-Module 07: Comparing Tenths and Hundredths
Math 4B-Module 07: Decimals on Number Lines
Math 4B-Module 07: Fraction Multiplication
Math 4B-Module 07: Fraction Multiplication Using Visual Models
Math 4B-Module 07: Fractions With Denominators of 10 and 100
Math 4B-Module 07: Fractions as Decimals
Math 4B-Module 07: Identifying Fractions as Division

Math 4B-Module 07: Multiplying a Whole Number by a Fraction
Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions
Math 4B-Module 08: Compare Decimals Using Area Models

**Math 4B-Module 08: Compare Decimals Using
Decimal Circles**
**Math 4B-Module 08: Compare Decimals Using
Number Lines**
**Math 4B-Module 08: Equivalent Measurements of
Weight**
**Math 4B-Module 08: Estimating Measurements of
Length**
**Math 4B-Module 08: Explaining Decimal
Comparisons**
Math 4B-Module 08: Measuring Weight and Mass
Math 4B-Module 08: Measuring With Inches
**Math 4B-Module 08: Measuring and Converting
Length Measurements**
**Math 4B-Module 08: Problem Solving and Estimating
Weight**
**Math 4B-Module 08: Represent Equivalent Measures
of Customary Units of Length**
Math 4B-Module 08: Weight Conversions
Math 4B-Module 09: Estimating With Money
Math 4B-Module 09: Liters and Milliliters
Math 4B-Module 09: Money Conversions
Math 4B-Module 09: Money as Fractions
Math 4B-Module 09: Solving Elapsed Time Problems

Math 4B-Module 09: Solving Problems With Money

**Math 4B-Module 09: Solving Problems With Time
Conversions**
**Math 4B-Module 09: Solving Problems With Time
and Distance**
Math 4B-Module 09: Solving Problems about Volume

Math 4B-Module 09: Volume Conversions
Math 4B-Module 09: What is Time
Math 4B-Module 10: Angles
Math 4B-Module 10: Angles and Circles
Math 4B-Module 10: Area and Perimeter
Math 4B-Module 10: Area of Rectangles
Math 4B-Module 10: Line Plots
Math 4B-Module 10: Measuring Inches
Math 4B-Module 10: Perimeter of a Rectangle
Math 4B-Module 10: Problem Solving With Line Plots

Math 4B-Module 10: Rays
Math 4B-Module 10: The Rectangle
Math 4B-Module 11: Adding Angles
Math 4B-Module 11: Constructing Angles
Math 4B-Module 11: Drawing Geometric Basics
Math 4B-Module 11: Measuring Angles
Math 4B-Module 11: Subtracting Angles
Math 4B-Module 11: Two Dimensional Shapes

		<p>Math 4B-Module 11: Types of Angles Math 4B-Module 11: Writing Equations Math 4B-Module 12: Lines of Symmetry Math 4B-Module 12: Polygons Math 4B-Module 12: Quadrilaterals Math 4B-Module 12: Symmetry in Shapes Math 4B-Module 12: Tessellation Math 4B-Module 12: Triangles</p>
<p>BIG IDEA / CORE CONTENT</p>	<p>MP.5.</p>	<p>Use appropriate tools strategically.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 08: Equivalent Measurements of Weight Math 4B-Module 08: Estimating Measurements of Length Math 4B-Module 08: Measuring Weight and Mass Math 4B-Module 08: Measuring With Inches Math 4B-Module 08: Measuring and Converting Length Measurements Math 4B-Module 08: Problem Solving and Estimating Weight Math 4B-Module 08: Represent Equivalent Measures of Customary Units of Length Math 4B-Module 08: Weight Conversions Math 4B-Module 09: Liters and Milliliters Math 4B-Module 09: Solving Elapsed Time Problems</p> <p>Math 4B-Module 09: Solving Problems With Time Conversions Math 4B-Module 09: Solving Problems With Time and Distance Math 4B-Module 09: Solving Problems about Volume</p> <p>Math 4B-Module 09: Volume Conversions Math 4B-Module 09: What is Time Math 4B-Module 10: Measuring Inches Math 4B-Module 11: Constructing Angles Math 4B-Module 11: Drawing Geometric Basics Math 4B-Module 11: Measuring Angles</p>
<p>BIG IDEA / CORE CONTENT</p>	<p>MP.6.</p>	<p>Attend to precision.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Interpretation Math 4A-Module 01: Multiplicative Comparison Math 4A-Module 01: Parts of a Word Problem Math 4A-Module 01: Remainders Math 4A-Module 01: Solving Basic Equations Math 4A-Module 01: Translation Into Equations Math 4A-Module 01: Writing Multiplication</p>

Math 4A-Module 02: Factoring
 Math 4A-Module 02: Multiplying by 10 and 100
 Math 4A-Module 03: Adding Several Whole Numbers
 Math 4A-Module 03: Adding Two Whole Numbers
 Math 4A-Module 03: Re-Grouping
 Math 4A-Module 03: Subtraction Skills
 Math 4A-Module 03: Subtraction With Zeros
 Math 4A-Module 04: Application of Division Strategies
 Math 4A-Module 04: Applications of Multiplication
 Math 4A-Module 04: Area Model
 Math 4A-Module 04: Clustering
 Math 4A-Module 04: Dividing Using Grouping
 Math 4A-Module 04: Long Division
 Math 4A-Module 04: Multiplying with Arrays
 Math 4A-Module 04: Regrouping Multiplication
 Math 4A-Module 05: Common Denominators
 Math 4A-Module 06: Adding Like Fractions
 Math 4A-Module 06: Adding Mixed Numbers
 Math 4A-Module 06: Adding Unlike Fractions
 Math 4A-Module 06: Dividing Mixed Numbers
 Math 4A-Module 06: Improper Fractions in Mixed Numbers
 Math 4A-Module 06: Subtracting Improper Fractions
 Math 4A-Module 06: Subtracting Like Fractions
 Math 4A-Module 06: Subtracting Mixed Numbers
 Math 4A-Module 06: Subtracting Unlike Fractions
 Math 4A-Module 06: Dividing Fractions Using Modeling
 Math 4A-Module 06: Dividing Fractions Using Reciprocals
 Math 4A-Module 06: Dividing Whole Numbers into Fractions
 Math 4B-Module 07: Add Tenths and Hundredths
 Math 4B-Module 07: Comparing Fractions to Decimals
 Math 4B-Module 07: Decimals on Number Lines
 Math 4B-Module 07: Fraction Multiplication
 Math 4B-Module 07: Fraction Multiplication Using Visual Models
 Math 4B-Module 07: Fractions With Denominators of 10 and 100
 Math 4B-Module 07: Fractions as Decimals
 Math 4B-Module 07: Identifying Fractions as Division
 Math 4B-Module 07: Multiplying a Whole Number by a Fraction
 Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions

BIG IDEA / CORE CONTENT

MP.7.

Look for and make use of structure.

Mathematics 4

Math 4A-Module 01: Estimation
Math 4A-Module 01: Interpretation
Math 4A-Module 01: Multiplicative Comparison
Math 4A-Module 01: Parts of a Word Problem
Math 4A-Module 01: Remainders
Math 4A-Module 01: Solving Basic Equations
Math 4A-Module 01: Translation Into Equations
Math 4A-Module 01: Writing Multiplication
Math 4A-Module 02: Place Value
Math 4A-Module 02: Common Multiples
Math 4A-Module 02: Composite Numbers
Math 4A-Module 02: Estimating
Math 4A-Module 02: Factoring
Math 4A-Module 02: Multiplying by 10 and 100
Math 4A-Module 02: Prime Numbers
Math 4A-Module 02: Rounding
Math 4A-Module 03: Adding Several Whole Numbers

Math 4A-Module 03: Adding Two Whole Numbers
Math 4A-Module 03: Expanded Form
Math 4A-Module 03: Hundreds Chart
Math 4A-Module 03: Re-Grouping
Math 4A-Module 03: Rounding to Hundreds and Thousands
Math 4A-Module 03: Subtraction Skills
Math 4A-Module 03: Subtraction With Zeros
Math 4A-Module 04: Application of Division Strategies
Math 4A-Module 04: Applications of Multiplication
Math 4A-Module 04: Area Model
Math 4A-Module 04: Clustering
Math 4A-Module 04: Dividing Using Grouping
Math 4A-Module 04: Fraction Parts
Math 4A-Module 04: Fraction Shape
Math 4A-Module 04: Long Division
Math 4A-Module 04: Multiplying with Arrays
Math 4A-Module 04: Regrouping Multiplication
Math 4A-Module 04: Writing Fractions
Math 4A-Module 05: Common Denominators
Math 4A-Module 05: Dividing Number Lines
Math 4A-Module 05: Equivalent Fractions
Math 4A-Module 05: Greatest Common Factor
Math 4A-Module 05: Identifying Fractions on a Number Line

Math 4A-Module 05: Least Common Multiple
Math 4A-Module 06: Adding Like Fractions
Math 4A-Module 06: Adding Mixed Numbers
Math 4A-Module 06: Adding Unlike Fractions
Math 4A-Module 06: Dividing Mixed Numbers
Math 4A-Module 06: Improper Fractions in Mixed Numbers
Math 4A-Module 06: Subtracting Improper Fractions

Math 4A-Module 06: Subtracting Like Fractions
Math 4A-Module 06: Subtracting Mixed Numbers
Math 4A-Module 06: Subtracting Unlike Fractions
Math 4A-Module 06: Dividing Fractions Using Modeling
Math 4A-Module 06: Dividing Fractions Using Reciprocals
Math 4A-Module 06: Dividing Whole Numbers into Fractions
Math 4B-Module 07: Add Tenths and Hundredths
Math 4B-Module 07: Comparing Fractions to Decimals
Math 4B-Module 07: Comparing Tenths and Hundredths
Math 4B-Module 07: Decimals on Number Lines
Math 4B-Module 07: Fraction Multiplication
Math 4B-Module 07: Fraction Multiplication Using Visual Models
Math 4B-Module 07: Fractions With Denominators of 10 and 100
Math 4B-Module 07: Fractions as Decimals
Math 4B-Module 07: Identifying Fractions as Division

Math 4B-Module 07: Multiplying a Whole Number by a Fraction
Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions
Math 4B-Module 08: Compare Decimals Using Area Models
Math 4B-Module 08: Compare Decimals Using Decimal Circles
Math 4B-Module 08: Compare Decimals Using Number Lines
Math 4B-Module 08: Equivalent Measurements of Weight
Math 4B-Module 08: Estimating Measurements of Length
Math 4B-Module 08: Explaining Decimal Comparisons
Math 4B-Module 08: Measuring Weight and Mass
Math 4B-Module 08: Measuring With Inches
Math 4B-Module 08: Measuring and Converting Length Measurements
Math 4B-Module 08: Problem Solving and Estimating Weight
Math 4B-Module 08: Represent Equivalent Measures of Customary Units of Length

		<p>Math 4B-Module 08: Weight Conversions</p> <p>Math 4B-Module 09: Estimating With Money</p> <p>Math 4B-Module 09: Liters and Milliliters</p> <p>Math 4B-Module 09: Money Conversions</p> <p>Math 4B-Module 09: Money as Fractions</p> <p>Math 4B-Module 09: Solving Elapsed Time Problems</p> <p>Math 4B-Module 09: Solving Problems With Money</p> <p>Math 4B-Module 09: Solving Problems With Time Conversions</p> <p>Math 4B-Module 09: Solving Problems With Time and Distance</p> <p>Math 4B-Module 09: Solving Problems about Volume</p> <p>Math 4B-Module 09: Volume Conversions</p> <p>Math 4B-Module 09: What is Time</p> <p>Math 4B-Module 10: Angles</p> <p>Math 4B-Module 10: Angles and Circles</p> <p>Math 4B-Module 10: Area and Perimeter</p> <p>Math 4B-Module 10: Area of Rectangles</p> <p>Math 4B-Module 10: Line Plots</p> <p>Math 4B-Module 10: Measuring Inches</p> <p>Math 4B-Module 10: Perimeter of a Rectangle</p> <p>Math 4B-Module 10: Problem Solving With Line Plots</p> <p>Math 4B-Module 10: Rays</p> <p>Math 4B-Module 10: The Rectangle</p> <p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Constructing Angles</p> <p>Math 4B-Module 11: Drawing Geometric Basics</p> <p>Math 4B-Module 11: Measuring Angles</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Two Dimensional Shapes</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p> <p>Math 4B-Module 12: Lines of Symmetry</p> <p>Math 4B-Module 12: Polygons</p> <p>Math 4B-Module 12: Quadrilaterals</p> <p>Math 4B-Module 12: Symmetry in Shapes</p> <p>Math 4B-Module 12: Tessellation</p> <p>Math 4B-Module 12: Triangles</p>
BIG IDEA / CORE CONTENT	MP.8.	<p>Look for and express regularity in repeated reasoning.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 02: Arithmetic Number Patterns</p> <p>Math 4A-Module 02: Basic Patterns</p>

Math 4A-Module 02: T-Charts		
EALR	WA.4.OA.	Operations and Algebraic Thinking
BIG IDEA / CORE CONTENT		Use the four operations with whole numbers to solve problems.
CORE CONTENT / CONTENT STANDARD	4.OA.1.	<p>Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.</p> <p><u>Mathematics 4</u> Math 4A-Module 01: Writing Multiplication</p>
CORE CONTENT / CONTENT STANDARD	4.OA.2.	<p>Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.</p> <p><u>Mathematics 4</u> Math 4A-Module 01: Estimation Math 4A-Module 01: Interpretation Math 4A-Module 01: Multiplicative Comparison Math 4A-Module 01: Parts of a Word Problem Math 4A-Module 01: Remainders Math 4A-Module 01: Solving Basic Equations Math 4A-Module 01: Translation Into Equations Math 4A-Module 01: Writing Multiplication Math 4A-Module 04: Application of Division Strategies Math 4A-Module 04: Regrouping Multiplication</p>
CORE CONTENT / CONTENT STANDARD	4.OA.3.	<p>Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p> <p><u>Mathematics 4</u> Math 4A-Module 01: Estimation Math 4A-Module 01: Interpretation Math 4A-Module 01: Multiplicative Comparison Math 4A-Module 01: Parts of a Word Problem Math 4A-Module 01: Remainders Math 4A-Module 01: Solving Basic Equations Math 4A-Module 01: Translation Into Equations Math 4A-Module 01: Writing Multiplication</p>

		<p>Math 4A-Module 03: Adding Several Whole Numbers</p> <p>Math 4A-Module 03: Adding Two Whole Numbers</p> <p>Math 4A-Module 04: Application of Division Strategies</p> <p>Math 4A-Module 04: Regrouping Multiplication</p> <p>Math 4B-Module 11: Writing Equations</p>
EALR	WA.4.OA.	Operations and Algebraic Thinking
BIG IDEA / CORE CONTENT		Gain familiarity with factors and multiples.
CORE CONTENT / CONTENT STANDARD	4.OA.4.	<p>Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Multiplicative Comparison</p> <p>Math 4A-Module 01: Parts of a Word Problem</p> <p>Math 4A-Module 01: Solving Basic Equations</p> <p>Math 4A-Module 01: Writing Multiplication</p> <p>Math 4A-Module 02: Common Multiples</p> <p>Math 4A-Module 02: Composite Numbers</p> <p>Math 4A-Module 02: Factoring</p> <p>Math 4A-Module 02: Prime Numbers</p> <p>Math 4A-Module 05: Greatest Common Factor</p> <p>Math 4A-Module 05: Least Common Multiple</p> <p>Math 4A-Module 06: Adding Like Fractions</p> <p>Math 4A-Module 06: Adding Mixed Numbers</p> <p>Math 4A-Module 06: Adding Unlike Fractions</p> <p>Math 4A-Module 06: Subtracting Improper Fractions</p> <p>Math 4A-Module 06: Subtracting Like Fractions</p> <p>Math 4A-Module 06: Subtracting Mixed Numbers</p> <p>Math 4A-Module 06: Subtracting Unlike Fractions</p>
EALR	WA.4.OA.	Operations and Algebraic Thinking
BIG IDEA / CORE CONTENT		Generate and analyze patterns.
CORE CONTENT / CONTENT STANDARD	4.OA.5.	<p>Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, given the rule "Add 3" and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 02: Arithmetic Number Patterns</p>

		<p>Math 4A-Module 02: Basic Patterns</p> <p>Math 4A-Module 02: T-Charts</p> <p>Math 4B-Module 09: Solving Problems With Time and Distance</p> <p>Math 4B-Module 12: Tessellation</p>
EALR	WA.4.NBT.	Number and Operations in Base Ten
BIG IDEA / CORE CONTENT		Generalize place value understanding for multi-digit whole numbers.
CORE CONTENT / CONTENT STANDARD	4.NBT.1.	<p>Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that $700 / 70 = 10$ by applying concepts of place value and division.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 02: Rounding</p> <p>Math 4A-Module 03: Expanded Form</p> <p>Math 4A-Module 03: Subtraction Skills</p> <p>Math 4A-Module 04: Area Model</p> <p>Math 4B-Module 07: Fractions as Decimals</p> <p>Math 4B-Module 08: Compare Decimals Using Area Models</p> <p>Math 4B-Module 08: Explaining Decimal Comparisons</p>
CORE CONTENT / CONTENT STANDARD	4.NBT.2.	<p>Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$. symbols to record the results of comparisons.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 03: Comparison</p> <p>Math 4A-Module 03: Expanded Form</p> <p>Math 4A-Module 03: Subtraction Skills</p>
CORE CONTENT / CONTENT STANDARD	4.NBT.3.	<p>Use place value understanding to round multi-digit whole numbers to any place.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Estimation</p> <p>Math 4A-Module 01: Interpretation</p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 02: Estimating</p> <p>Math 4A-Module 02: Rounding</p> <p>Math 4A-Module 03: Hundreds Chart</p> <p>Math 4A-Module 03: Rounding to Hundreds and Thousands</p>
EALR	WA.4.NBT.	Number and Operations in Base Ten

BIG IDEA / CORE CONTENT		Use place value understanding and properties of operations to perform multi-digit arithmetic.
CORE CONTENT / CONTENT STANDARD	4.NBT.4.	<p>Fluently add and subtract multi-digit whole numbers using the standard algorithm.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 02: Place Value</p> <p>Math 4A-Module 03: Adding Several Whole Numbers</p> <p>Math 4A-Module 03: Adding Two Whole Numbers</p> <p>Math 4A-Module 03: Re-Grouping</p> <p>Math 4A-Module 03: Subtraction Skills</p> <p>Math 4A-Module 03: Subtraction With Zeros</p>
CORE CONTENT / CONTENT STANDARD	4.NBT.5.	<p>Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Multiplicative Comparison</p> <p>Math 4A-Module 01: Parts of a Word Problem</p> <p>Math 4A-Module 01: Solving Basic Equations</p> <p>Math 4A-Module 01: Translation Into Equations</p> <p>Math 4A-Module 01: Writing Multiplication</p> <p>Math 4A-Module 02: Factoring</p> <p>Math 4A-Module 02: Multiplying by 10 and 100</p> <p>Math 4A-Module 04: Applications of Multiplication</p> <p>Math 4A-Module 04: Area Model</p> <p>Math 4A-Module 04: Clustering</p> <p>Math 4A-Module 04: Multiplying with Arrays</p> <p>Math 4A-Module 04: Regrouping Multiplication</p> <p>Math 4B-Module 08: Compare Decimals Using Area Models</p>
CORE CONTENT / CONTENT STANDARD	4.NBT.6.	<p>Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 01: Remainders</p> <p>Math 4A-Module 02: Factoring</p> <p>Math 4A-Module 04: Application of Division Strategies</p> <p>Math 4A-Module 04: Area Model</p> <p>Math 4A-Module 04: Dividing Using Grouping</p>

		<p>Math 4A-Module 04: Long Division</p> <p>Math 4A-Module 06: Dividing Fractions Using Modeling</p> <p>Math 4A-Module 06: Dividing Fractions Using Reciprocals</p>
EALR	WA.4.NF.	Number and Operations--Fractions
BIG IDEA / CORE CONTENT		Extend understanding of fraction equivalence and ordering.
CORE CONTENT / CONTENT STANDARD	4.NF.1.	<p>Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 04: Fraction Parts</p> <p>Math 4A-Module 04: Fraction Shape</p> <p>Math 4A-Module 04: Writing Fractions</p> <p>Math 4A-Module 05: Common Denominators</p> <p>Math 4A-Module 05: Equivalent Fractions</p> <p>Math 4A-Module 06: Adding Unlike Fractions</p> <p>Math 4A-Module 06: Subtracting Improper Fractions</p> <p>Math 4A-Module 06: Subtracting Like Fractions</p> <p>Math 4A-Module 06: Subtracting Mixed Numbers</p> <p>Math 4A-Module 06: Subtracting Unlike Fractions</p> <p>Math 4B-Module 07: Add Tenths and Hundredths</p> <p>Math 4B-Module 07: Comparing Tenths and Hundredths</p> <p>Math 4B-Module 10: Measuring Inches</p>
CORE CONTENT / CONTENT STANDARD	4.NF.2.	<p>Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1/2$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 05: Equivalent Fractions</p> <p>Math 4A-Module 06: Adding Like Fractions</p> <p>Math 4B-Module 07: Comparing Fractions to Decimals</p> <p>Math 4B-Module 07: Comparing Tenths and Hundredths</p> <p>Math 4B-Module 07: Fraction Multiplication Using Visual Models</p> <p>Math 4B-Module 07: Multiplying a Whole Number by a Fraction</p>

		Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions Math 4B-Module 08: Compare Decimals Using Area Models
EALR	WA.4.NF.	Number and Operations--Fractions
BIG IDEA / CORE CONTENT		Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
CORE CONTENT / CONTENT STANDARD	4.NF.3.	Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.NF.3(a)	Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. <u>Mathematics 4</u> Math 4A-Module 05: Common Denominators Math 4A-Module 05: Least Common Multiple Math 4A-Module 06: Adding Like Fractions Math 4A-Module 06: Adding Mixed Numbers Math 4A-Module 06: Adding Unlike Fractions Math 4A-Module 06: Subtracting Improper Fractions Math 4A-Module 06: Subtracting Like Fractions Math 4A-Module 06: Subtracting Mixed Numbers Math 4A-Module 06: Subtracting Unlike Fractions Math 4B-Module 07: Add Tenths and Hundredths Math 4B-Module 10: Problem Solving With Line Plots
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.NF.3(b)	Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: $3/8 = 1/8 + 1/8 + 1/8$; $3/8 = 1/8 + 2/8$; $2 \frac{1}{8} = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8$. <u>Mathematics 4</u> Math 4A-Module 04: Fraction Parts Math 4A-Module 04: Fraction Shape Math 4B-Module 07: Fraction Multiplication Math 4B-Module 07: Fraction Multiplication Using Visual Models Math 4B-Module 07: Multiplying a Whole Number by a Fraction Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.NF.3(c)	Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction. <u>Mathematics 4</u> Math 4A-Module 06: Adding Mixed Numbers

		<p>Math 4A-Module 06: Improper Fractions in Mixed Numbers</p> <p>Math 4A-Module 06: Subtracting Improper Fractions</p> <p>Math 4A-Module 06: Subtracting Mixed Numbers</p> <p>Math 4B-Module 10: Problem Solving With Line Plots</p>
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.NF.3(d)	<p>Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 05: Common Denominators</p> <p>Math 4A-Module 05: Least Common Multiple</p> <p>Math 4A-Module 06: Adding Like Fractions</p> <p>Math 4A-Module 06: Adding Mixed Numbers</p> <p>Math 4A-Module 06: Adding Unlike Fractions</p> <p>Math 4A-Module 06: Subtracting Improper Fractions</p> <p>Math 4A-Module 06: Subtracting Like Fractions</p> <p>Math 4A-Module 06: Subtracting Mixed Numbers</p> <p>Math 4A-Module 06: Subtracting Unlike Fractions</p> <p>Math 4B-Module 07: Add Tenths and Hundredths</p> <p>Math 4B-Module 10: Problem Solving With Line Plots</p>
EALR	WA.4.NF.	Number and Operations--Fractions
BIG IDEA / CORE CONTENT		Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
CORE CONTENT / CONTENT STANDARD	4.NF.4.	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.NF.4(a)	<p>Understand a fraction a/b as a multiple of $1/b$. For example, use a visual fraction model to represent $5/4$ as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$.</p> <p><u>Mathematics 4</u></p> <p>Math 4A-Module 04: Fraction Parts</p> <p>Math 4A-Module 04: Fraction Shape</p> <p>Math 4A-Module 04: Writing Fractions</p> <p>Math 4A-Module 05: Common Denominators</p> <p>Math 4A-Module 05: Dividing Number Lines</p> <p>Math 4A-Module 05: Equivalent Fractions</p> <p>Math 4A-Module 05: Identifying Fractions on a Number Line</p> <p>Math 4A-Module 05: Least Common Multiple</p> <p>Math 4A-Module 06: Adding Like Fractions</p> <p>Math 4A-Module 06: Adding Mixed Numbers</p> <p>Math 4A-Module 06: Adding Unlike Fractions</p>

		<p>Math 4A-Module 06: Dividing Mixed Numbers Math 4A-Module 06: Improper Fractions in Mixed Numbers Math 4A-Module 06: Subtracting Improper Fractions</p> <p>Math 4A-Module 06: Subtracting Like Fractions Math 4A-Module 06: Subtracting Mixed Numbers Math 4A-Module 06: Subtracting Unlike Fractions Math 4A-Module 06: Dividing Fractions Using Modeling Math 4A-Module 06: Dividing Fractions Using Reciprocals Math 4A-Module 06: Dividing Whole Numbers into Fractions Math 4B-Module 07: Add Tenths and Hundredths Math 4B-Module 07: Comparing Fractions to Decimals Math 4B-Module 07: Comparing Tenths and Hundredths Math 4B-Module 07: Fraction Multiplication Math 4B-Module 07: Fraction Multiplication Using Visual Models Math 4B-Module 07: Fractions With Denominators of 10 and 100 Math 4B-Module 07: Fractions as Decimals Math 4B-Module 07: Identifying Fractions as Division</p> <p>Math 4B-Module 07: Multiplying a Whole Number by a Fraction Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions Math 4B-Module 09: Money as Fractions Math 4B-Module 10: Measuring Inches Math 4B-Module 10: Problem Solving With Line Plots</p>
<p>CONTENT STANDARD / PERFORMANCE EXPECTATION</p>	<p>4.NF.4(b)</p>	<p>Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times (a/b) = (n \times a)/b$.)</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 07: Fraction Multiplication Math 4B-Module 07: Fraction Multiplication Using Visual Models Math 4B-Module 07: Multiplying a Whole Number by a Fraction Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions</p>

<p>CONTENT STANDARD / PERFORMANCE EXPECTATION</p>	<p>4.NF.4(c)</p>	<p>Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat $\frac{3}{8}$ of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 07: Fraction Multiplication</p> <p>Math 4B-Module 07: Fraction Multiplication Using Visual Models</p> <p>Math 4B-Module 07: Multiplying a Whole Number by a Fraction</p> <p>Math 4B-Module 07: Using Multiplication to Solve Word Problems with Fractions</p>
<p>EALR</p>	<p>WA.4.NF.</p>	<p>Number and Operations--Fractions</p>
<p>BIG IDEA / CORE CONTENT</p>		<p>Understand decimal notation for fractions, and compare decimal fractions.</p>
<p>CORE CONTENT / CONTENT STANDARD</p>	<p>4.NF.5.</p>	<p>Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express $\frac{3}{10}$ as $\frac{30}{100}$, and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 07: Add Tenths and Hundredths</p> <p>Math 4B-Module 07: Comparing Fractions to Decimals</p> <p>Math 4B-Module 07: Comparing Tenths and Hundredths</p> <p>Math 4B-Module 07: Decimals on Number Lines</p> <p>Math 4B-Module 07: Fractions With Denominators of 10 and 100</p> <p>Math 4B-Module 07: Fractions as Decimals</p>
<p>CORE CONTENT / CONTENT STANDARD</p>	<p>4.NF.6.</p>	<p>Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as $\frac{62}{100}$; describe a length as 0.62 meters; locate 0.62 on a number line diagram.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 07: Add Tenths and Hundredths</p> <p>Math 4B-Module 07: Comparing Fractions to Decimals</p> <p>Math 4B-Module 07: Comparing Tenths and Hundredths</p> <p>Math 4B-Module 07: Decimals on Number Lines</p> <p>Math 4B-Module 07: Fractions With Denominators of 10 and 100</p> <p>Math 4B-Module 07: Fractions as Decimals</p>

CORE CONTENT / CONTENT STANDARD	4.NF.7.	<p>Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 07: Add Tenths and Hundredths Math 4B-Module 07: Comparing Fractions to Decimals Math 4B-Module 07: Comparing Tenths and Hundredths Math 4B-Module 07: Decimals on Number Lines Math 4B-Module 08: Compare Decimals Using Area Models Math 4B-Module 08: Compare Decimals Using Decimal Circles Math 4B-Module 08: Compare Decimals Using Number Lines Math 4B-Module 08: Explaining Decimal Comparisons</p>
EALR	WA.4.MD.	Measurement and Data
BIG IDEA / CORE CONTENT		Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
CORE CONTENT / CONTENT STANDARD	4.MD.1.	<p>Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 08: Equivalent Measurements of Weight Math 4B-Module 08: Estimating Measurements of Length Math 4B-Module 08: Measuring Weight and Mass Math 4B-Module 08: Measuring With Inches Math 4B-Module 08: Measuring and Converting Length Measurements Math 4B-Module 08: Problem Solving and Estimating Weight Math 4B-Module 08: Represent Equivalent Measures of Customary Units of Length Math 4B-Module 08: Weight Conversions Math 4B-Module 09: Liters and Milliliters Math 4B-Module 09: Solving Problems about Volume Math 4B-Module 09: Volume Conversions</p>

CORE CONTENT / CONTENT STANDARD	4.MD.2.	<p>Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 08: Problem Solving and Estimating Weight Math 4B-Module 09: Estimating With Money Math 4B-Module 09: Money Conversions Math 4B-Module 09: Money as Fractions Math 4B-Module 09: Solving Elapsed Time Problems Math 4B-Module 09: Solving Problems With Money Math 4B-Module 09: Solving Problems With Time Conversions Math 4B-Module 09: Solving Problems With Time and Distance Math 4B-Module 09: Solving Problems about Volume Math 4B-Module 09: Volume Conversions Math 4B-Module 09: What is Time</p>
CORE CONTENT / CONTENT STANDARD	4.MD.3.	<p>Apply the area and perimeter formulas for rectangles in real world and mathematical problems. For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Area and Perimeter Math 4B-Module 10: Area of Rectangles Math 4B-Module 10: Perimeter of a Rectangle</p>
EALR	WA.4.MD.	Measurement and Data
BIG IDEA / CORE CONTENT		Represent and interpret data.
CORE CONTENT / CONTENT STANDARD	4.MD.4.	<p>Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots. For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Line Plots Math 4B-Module 10: Problem Solving With Line Plots</p>
EALR	WA.4.MD.	Measurement and Data

BIG IDEA / CORE CONTENT		Geometric measurement: understand concepts of angle and measure angles.
CORE CONTENT / CONTENT STANDARD	4.MD.5.	Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.MD.5(a)	<p>An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through $\frac{1}{360}$ of a circle is called a "one-degree angle," and can be used to measure angles.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Angles</p> <p>Math 4B-Module 10: Angles and Circles</p> <p>Math 4B-Module 10: Rays</p> <p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Constructing Angles</p> <p>Math 4B-Module 11: Drawing Geometric Basics</p> <p>Math 4B-Module 11: Measuring Angles</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p>
CONTENT STANDARD / PERFORMANCE EXPECTATION	4.MD.5(b)	<p>An angle that turns through n one-degree angles is said to have an angle measure of n degrees.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Angles</p> <p>Math 4B-Module 10: Angles and Circles</p> <p>Math 4B-Module 10: Rays</p> <p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Constructing Angles</p> <p>Math 4B-Module 11: Drawing Geometric Basics</p> <p>Math 4B-Module 11: Measuring Angles</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p>
EALR	WA.4.MD.	Measurement and Data
BIG IDEA / CORE CONTENT		Geometric measurement: understand concepts of angle and measure angles.
CORE CONTENT / CONTENT STANDARD	4.MD.6.	<p>Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Angles</p> <p>Math 4B-Module 10: Angles and Circles</p> <p>Math 4B-Module 10: Rays</p>

		<p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Constructing Angles</p> <p>Math 4B-Module 11: Drawing Geometric Basics</p> <p>Math 4B-Module 11: Measuring Angles</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p>
CORE CONTENT / CONTENT STANDARD	4.MD.7.	<p>Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Writing Equations</p>
EALR	WA.4.G.	Geometry
BIG IDEA / CORE CONTENT		Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
CORE CONTENT / CONTENT STANDARD	4.G.1.	<p>Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.</p> <p><u>Mathematics 4</u></p> <p>Math 4B-Module 10: Angles</p> <p>Math 4B-Module 10: Angles and Circles</p> <p>Math 4B-Module 10: Rays</p> <p>Math 4B-Module 10: The Rectangle</p> <p>Math 4B-Module 11: Adding Angles</p> <p>Math 4B-Module 11: Constructing Angles</p> <p>Math 4B-Module 11: Drawing Geometric Basics</p> <p>Math 4B-Module 11: Measuring Angles</p> <p>Math 4B-Module 11: Parallel and Perpendicular Lines</p> <p>Math 4B-Module 11: Subtracting Angles</p> <p>Math 4B-Module 11: Two Dimensional Shapes</p> <p>Math 4B-Module 11: Types of Angles</p> <p>Math 4B-Module 11: Writing Equations</p> <p>Math 4B-Module 12: Quadrilaterals</p>
CORE CONTENT / CONTENT STANDARD	4.G.2.	<p>Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.</p>

	<p><u>Mathematics 4</u> Math 4B-Module 11: Two Dimensional Shapes Math 4B-Module 12: Polygons Math 4B-Module 12: Quadrilaterals Math 4B-Module 12: Triangles</p>
<p>CORE CONTENT / CONTENT STANDARD</p>	<p>4.G.3. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.</p> <p><u>Mathematics 4</u> Math 4B-Module 12: Lines of Symmetry Math 4B-Module 12: Symmetry in Shapes</p>