

Options FRMS Math 6B 2020		Scope and Sequence
Unit	Lesson	Objectives
<b>Dividing Fractions</b>		
	Dividing a Fraction by a Whole Number	<p>Divide a fraction by a whole number equal to the fraction's denominator in real-world situations.</p> <p>Divide a fraction by a whole number using an equivalent fraction in real-world situations.</p>
	Using Visual Models in Fraction Division	<p>Use models to divide a whole number by a whole number.</p> <p>Use models to divide a whole number by a fraction.</p>
	Dividing a Fraction by a Fraction	<p>Use models to divide a fraction by a fraction.</p>
	Finding a Rule for Dividing Fractions	<p>Use the standard algorithm to divide fractions.</p>
	Fraction Multiplication and Division	<p>Solve real-world problems using fraction multiplication or division.</p>
	Test	
<b>Operations</b>		
	Using Properties to Simplify Expressions	<p>Simplify expressions using properties of operations and combining like terms.</p>
	Using Properties of Operations	

**Unit Lesson****Objectives**

Apply the associative and commutative properties of operations to simplify expressions.

Apply the distributive property to rewrite and evaluate expressions.

## Operations with Integers

Solve integer problems involving a variety of operations while applying the properties of operations.

## Solving Problems Involving Integers

Apply properties of operations to solve real-world and mathematical problems involving more than one operation with integers.

## Operations with Scientific Notation

Evaluate products and quotients of scientific notation values.

Recognize scientific notation answers generated by technology and identify the symbols associated with the value.

Identify proper units of measurement for quantities written in scientific notation.

## Test

**Integers and Functions**

## Integers on the Number Line

Identify integers.

Graph integers on number lines.

Find the opposite of an integer.

## Understand Functions

Identify input and output involving two variable quantities

Identify functional relationships between two variables

Represent functions between two variables using tables and graphs

**Unit Lesson****Objectives**

Identify trends in data numerically and graphically

## Introduction to Functions

Determine the domain and range of a functional relationship given in a mapping diagram, table, graph, or scenario.

Analyze a mapping diagram, table, graph, or scenario to recognize functional relationships.

## Evaluating Functions

Analyze a function represented by an equation, table, or graph to determine the output when given the input, and vice versa.

Find input and output values of two functions graphed in the same coordinate plane.

Write the inverse of a given linear function.

## The Coordinate Plane

Identify the parts of the coordinate plane.

Graph and name points in Quadrant I.

## Graphing on the Coordinate Plane

Identify and graph points in the coordinate plane, describing their relationship to axes and quadrants.

Create graphs from a table or situation and use them to solve problems.

## Slopes of Parallel and Perpendicular Lines

Use slopes to identify lines that are either parallel or perpendicular.

Use slopes to analyze polygons drawn in the coordinate plane.

Write an equation of a line that passes through a given point and is parallel or perpendicular to a given line.

## Inequalities

Solve one-variable linear inequalities, including compound inequalities, and represent the solution sets graphically and

**Unit Lesson****Objectives**

algebraically.

Create one-variable linear inequalities in one variable and use them to solve problems.

Addition and Subtraction  
Inequalities

Solve one-step addition and subtraction inequalities.

Solve one-step addition and subtraction inequalities in the real world and interpret the results.

Test

**Understanding Ratios and Rates**

Describing Part-to-Part  
Relationships

Describe ratio relationships between two quantities using informal language.

Use models to represent relationships between quantities.

Analyze how a change in a quantity affects a part-to-part relationship.

Using Ratio Notation

Use the notation of ratio language to describe relationships between two quantities.

Equivalent Ratios

Analyze patterns in a table of equivalent ratios.

Find missing values in a table using ratio reasoning.

Equivalent Ratios in  
Measurement

Identify equivalent ratios in measurements.

Analyze patterns of equivalent ratios in measurement.

Comparing Ratios

Compare ratios using different strategies.

**Unit Lesson****Objectives**

Understanding Speed

Find speed given distance and time.

Convert measures of speed within a system.

Unit Test

**Percent**

Introduction to Percents

Identify an equivalent percent, fraction, or decimal represented in multiple forms.

Create diagrams to solve for a percent in real-world problems.

Find the percent of a number using the fraction or decimal equivalent form of a percent to write an expression from a diagram.

Understanding Percent

Represent a portion of a set with a ratio.

Translate ratios of part: whole and part/whole as percents.

Use models to illustrate the meaning of percents.

Compare ratios and percents of sets with different base units.

Estimating with Percents

Make use of estimation strategies such as a benchmark percent, approximate fraction, decimal equivalent, or rounded numbers to find the percent of a number in real-world situations.

Use the distributive property to estimate percents that are more than 100.

Use estimations to verify the reasonableness of an answer.