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## Options FRMS Math 6B-OR

## Scope and Sequence

## Unit Lesson

## Objectives

## Equations

Writing Equations to Find Unknowns
Differentiate between expressions and equations.
Translate simple word problems into one-step equations.
Use substitution to determine whether a given number is a solution of a one-step equation.
Solving One-Step Equations: Addition and Subtraction

Write and solve one-step addition equations.
Write and solve one-step subtraction equations.
Solving One-Step Equations: Multiplication and Division

Write and solve one-step multiplication equations.
Write and solve one-step division equations.
Modeling Real-World Problems with One-Step Equations

Writing Inequalities
Write and solve one-step variable equations modeling real-world contexts involving addition, subtraction, multiplication, and division of nonnegative rational numbers.

Graphing Inequalities on a Number Line

Write an inequality to represent a constraint or condition in a real-world or mathematical problem.
Describe the set of numbers that make the inequality true.
Write real-world scenarios given one-step inequalities.

Recognize that inequalities of the form $x>c$ or $x<c$ have infinitely many solutions.

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## Scope and Sequence

Objectives
Graph solutions of one-step inequalities on number line diagrams.

## Unit Test

## The Rational Number System

Negative Numbers in Real-World Contexts

Use positive and negative numbers to represent quantities in real-world contexts.
Describe the meaning of zero in real-world contexts.
Integers on the Number Line
Identify integers.
Graph integers on number lines.
Find the opposite of an integer.
Plotting Positive and Negative Fractions
Comparing Rational Numbers

Graph negative fractions on a number line.
Use a number line to compare and order positive and negative fractions.
Comparing Rational Numbers
Graph rational numbers on a number line.
Define rational numbers and classify numbers.
Use a number line to compare rational numbers in a real-world context.
Dividing a Fraction by a Fraction
Use models to divide a fraction by a fraction.
Ordering Rational Numbers

Order rational numbers using a number line.

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## Scope and Sequence

Unit Lesson
Objectives
Write and interpret statements of comparison for rational numbers in real-world contexts.
Absolute Value
Define absolute value.
Find the absolute value of an integer.
Compare and order magnitudes using absolute value.
Represent and compare real-world quantities using absolute value.
Unit Test

## Two-Dimensional Geometry

Plotting Points in the Four Quadrants
Graph and name points in all four quadrants.
Identify the quadrant in which a point lies.
Describe the relationship between ordered pairs that differ only in sign.
Distance between Two Points
Use a number line to find the distance between two points in the same quadrant that have the same $x$ - or $y$-coordinate.

Use absolute value to find the distance between two points in different quadrants that have the same $x$ - or $y$-coordinate.

Polygons in the Coordinate Plane
Identify polygons on the coordinate plane given coordinates of the vertices.
Find lengths of sides for polygons drawn on the coordinate plane.

## Area of Triangles

Calculate the area of triangles using the formula $A=1 / 2 b h$.
Solve real-world problems involving the area of triangles.

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Unit Lesson
Area of Special Quadrilaterals
Unit Test
Dimensional Geometry

## Three-Dimensional Geometry

## Scope and Sequence

Objectives

Find the area of special quadrilaterals.
Solve real-world problems involving the area of special quadrilaterals.

Surface Area of Prisms
Represent rectangular and triangular prisms using nets.
Use nets of rectangular and triangular prisms to find surface area.
Surface Area of Rectangular Pyramids
Represent square and rectangular pyramids using nets.
Calculate the surface area of square and rectangular pyramids using nets.
Application of Surface Area in Context
Solve real-world surface area problems using nets
Exploring Volume of a Rectangular Prism

Calculate the volume of a right rectangular prism with whole number edge lengths.
Calculate the volume of a right rectangular prism with fractional edge lengths.
Finding a Formula for the Volume of a Rectangular Prism

Solving Volume Problems with Formulas

Use the formulas $\mathrm{V}=\mathrm{l}$ wh and $\mathrm{V}=\mathrm{Bh}$ to find the volumes of right rectangular prisms.

Calculate the volume of a rectangular prism with one or more fraction or decimal side lengths using a formula
Find the value of an unknown dimension of a rectangular prism, given the remaining dimensions and the

## Scope and Sequence

Unit Lesson
Objectives
volume.
Solving Surface Area and Volume Problems

Identify whether a problem requires the calculation of surface area or volume.
Solve real-world problems about surface area and volume.

## Unit Test

## Variability, Distributions, and Relationships between Quantities: Part One

Data Representation
Interpret different types of data displays.
Identify an appropriate representation for displaying different data sets.
Plotting Data on a Dot Plot
Distinguish between statistical and nonstatistical questions.
Display data on a dot plot.
Describing Data on Dot Plots
Describe a data set as shown on a dot plot, using the center, spread, and overall shape.
Representing Data Sets with Histograms

Display data on a histogram.
Describe a data set as shown on a histogram, using the center, spread, and overall shape.
Finding the Mean
Calculate the mean of a set of data.
Explain how the mean of a set of data is a balance point.
Find a missing value in a set of data given the mean.


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## Scope and Sequence

## Unit Lesson

Objectives
Describe the impact of outliers on the mean absolute deviation.
Data Displays and Statistics
Interpret the shape of a data set in the context of the way in which data was collected.
Describe the impact of the number of observations on the shape of the data.
Compare two data sets using measures of center and spread.
Performance Task: Exciting Entertainment

Unit Test


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