

Pre-Algebra provides a curriculum focused on foundational concepts that prepare students for success in Algebra I. Through a "Discovery-Confirmation-Practice"-based exploration of basic concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge through a variety of problem-solving applications.

Course topics include integers; the language of algebra; solving equations with addition, subtraction, multiplication, and division; fractions and decimals; measurement; exponents; solving equations with roots and powers; multi-step equations; and linear equations.

Within each Pre-Algebra lesson, students are supplied with a scaffolded note-taking guide, called a Study Sheet, as well as a post-study Checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes, 10-question problem set before starting formal assessment. Unit-level Introductory Algebra assessments include a computer-scored test and a scaffolded, teacher-scored test.

The course is built to state standards and informed by the National Council of Teachers of Mathematics (NCTM).

Length: Two semesters

## UNIT 1: INTEGERS

### LESSON 1: WHOLE NUMBERS

#### Study: Whole Numbers

Learn about aspects of whole numbers, including place value, natural numbers, sets, elements, and set notation.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Whole Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### LESSON 2: NUMBER LINES AND INEQUALITIES

#### Study: Number Lines and Inequalities

Define and use a number line. Represent relationships between numbers with inequality symbols.

Duration: 0 hrs 40 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Number Lines and Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### LESSON 3: ROUNDING WHOLE NUMBERS

#### Study: Rounding Whole Numbers

Explore rounding and estimating numbers with and without a number line.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Rounding with a Number Line**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

**Quiz: Rounding without a Number Line**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 4: OPERATIONS AND NUMERICAL EXPRESSIONS****Study: Operations and Numerical Expressions**

Learn about forming and evaluating numerical expressions, the order of operations, and grouping symbols.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Operations and Numerical Expressions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

**LESSON 5: PROPERTIES OF OPERATIONS****Study: Properties of Operations**

Learn about the associative, commutative, and distributive properties of addition and multiplication.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: The Associative Property**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

**Quiz: The Commutative and Distributive Properties**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

**LESSON 6: THE OPERATIONS ON A NUMBER LINE****Study: The Operations on a Number Line**

Explore using a number line to evaluate numerical expressions.

Duration: 0 hrs 40 mins

**LESSON 7: REVERSE OPERATIONS****Study: Reverse Operations**

Learn about addition, subtraction, multiplication, and division as reverse operations.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Reverse Operations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 8: NEGATIVE NUMBERS

### Study: Negative Numbers

Learn about positive, negative, and opposite numbers, as well as integers and signs.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Negative Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

## LESSON 9: ABSOLUTE VALUE

### Study: Absolute Value

Learn about the absolute value of integers, the definition symbol, and the absolute value of expressions.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Absolute Value

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 10: ADDING INTEGERS

### Study: Adding Integers

Learn about adding integers with and without a number line.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Adding Integers (Basic)

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

### Quiz: Adding Integers (Advanced)

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

## LESSON 11: SUBTRACTING INTEGERS

### Study: Subtracting Integers

Learn about subtracting negative integers by using a number line and by adding the opposite number (calculating).

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Subtracting Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 12: MULTIPLYING INTEGERS

### Study: Multiplying Integers

Learn the rules for multiplying a positive and negative integer and for multiplying two negative integers.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Multiplying Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 13: DIVIDING INTEGERS

### Study: Dividing Integers

Learn the rules for dividing a positive and negative integer and for dividing two negative integers.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Dividing Integers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 14: WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### Review: Review Exercises

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Discuss: Consistency is Key

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### Test (CS): Integers

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### Test (TS): Integers

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 2: THE LANGUAGE OF ALGEBRA

### LESSON 1: WHAT IS A VARIABLE?

#### Study: What is a Variable?

Learn the definition and explore examples of variables.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: What is a Variable?**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 2: FINDING AND NAMING VARIABLES**

**Study: Finding and Naming Variables**

Select relevant variables and name them.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Finding and Naming Variables**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 3: UNITS AND REASONABLE VALUES**

**Study: Units and Reasonable Values**

Learn to recognize units of measure and determine reasonable values.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Units and Reasonable Values**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 4: GRAPHS TABLES AND EQUATIONS**

**Study: Graphs, Tables, and Equations**

Find the value of a variable using graphs, tables, and equations. Learn to organize information and find patterns. Explore examples and advantages of each problem-solving method.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Graphs, Tables, and Equations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 5: SOLVING PROBLEMS WITH TABLES AND GRAPHS**

**Study: Solving Problems with Tables and Graphs**

Set up tables and graphs and use them to organize information. Determine when to use tables and graphs to solve problems.

Duration: 0 hrs 40 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

**Quiz: Solving Problems with Tables and Graphs**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 6: VARIABLE EXPRESSIONS

### Study: Variable Expressions

Define and form variable expressions by performing operations.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Variable Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

## LESSON 7: SIMPLIFYING AND EVALUATING EXPRESSIONS

### Study: Simplifying and Evaluating Expressions

Simplify variable expressions by evaluating their numerical parts. Evaluate variable expressions by substituting values for  $x$ .

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Simplifying and Evaluating Expressions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 14 points

## LESSON 8: MATHEMATICAL SENTENCES

### Study: Mathematical Sentences

Learn about the types and parts of mathematical sentences. Learn about translating word problems into mathematical sentences.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Mathematical Sentences

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 9: SOLVING MATHEMATICAL SENTENCES

### Study: Solving Mathematical Sentences

Solve equations using the "guess-and-check" method. Define a solution set and compare solution sets of equations and inequalities.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Solving Mathematical Sentences

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 10: SOME GUIDELINES FOR PROBLEM SOLVING

### Study: Some Guidelines for Problem Solving

Use problem-solving tips to solve a problem. Develop a general strategy for solving problems.

Duration: 0 hrs 40 mins

### Quiz: Some Guidelines for Problem Solving

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 11: WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Discuss: Using $X$ to Mark the Spot

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### Test (CS): The Language of Algebra

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### Test (TS): The Language of Algebra

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 3: SOLVING EQUATIONS WITH ADDITION AND SUBTRACTION

### LESSON 1: SOLVING EQUATIONS GRAPHICALLY

#### Study: Solving Equations Graphically

Begin solving basic equations using an interactive scale tool. Discover problem-solving strategies such as isolating a variable in an equation and using tiles on a scale to represent values in word problems.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Solving Equations Graphically

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

### LESSON 2: SOLVING EQUATIONS WITH LARGER NUMBERS

#### Study: Solving Equations with Larger Numbers

Translate a word problem involving large numbers into a mathematical sentence (or equation) and use an interactive scale tool to solve for the variable.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Solving Equations with Larger Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

### LESSON 3: SOLVING $x + a = b$

#### Study: Solving $x + a = b$

Practice solving equations in the form  $x + a = b$  by isolating the variable  $x$  on one side of the equation. Learn how to solve this type of equation when the value of  $a$  is positive or negative.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Solving $x + a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

#### Quiz: Solving $x - a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 12 points

### LESSON 4: SOLVING WITH A NUMBER LINE

#### Study: Solving with a Number Line

Plot points on a number line, moving to the left or right to solve equations.

Duration: 0 hrs 40 mins

### LESSON 5: SOLVING INEQUALITIES

#### Study: Solving Inequalities

Develop strategies to solve various forms of inequalities and display their solution set on a number line.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Solving Inequalities

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### LESSON 6: VARIATIONS OF EQUATIONS AND INEQUALITIES

#### Study: Variations of Equations and Inequalities

Explore problems that take different forms, rearranging equations into  $x + a = b$  form (standard form) and solving inequalities in nonstandard form.

Duration: 0 hrs 40 mins

#### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Equations in Non-Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

#### Quiz: Inequalities in Non-Standard Form

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points



## LESSON 7: DENSITY

### Study: Density

Learn about Archimedes' problem, the definition of density, and the density formula.

Duration: 0 hrs 40 mins

### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Density

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 8: THE KING'S CROWN PROBLEM

### Study: The King's Crown Problem

Learn how to choose a strategy in order to solve a problem and how to determine what you know and what you need to find out. Explore using displacement to determine volume.

Duration: 0 hrs 40 mins

## LESSON 9: WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Discuss: Math -- The Ultimate Balancing Act

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### Test (CS): Solving Equations with Addition and Subtraction

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### Test (TS): Solving Equations with Addition and Subtraction

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 4: FRACTIONS AND DECIMALS

### LESSON 1: FRACTION FUNDAMENTALS

#### Study: Fraction Fundamentals

Learn about fractions, numerators, denominators, and equivalent fractions.

Duration: 0 hrs 40 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Fractional Amounts

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

#### Quiz: Equivalent Fractions

Take a quiz to assess your understanding of the material.

## LESSON 2: INTRODUCTION TO FRACTION ARITHMETIC

### Study: Introduction to Fraction Arithmetic

Learn about adding and subtracting fractions with like denominators, multiplying a fraction by an integer, and multiplying fractions.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Adding and Subtracting Like Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

### Quiz: Multiplying Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

## LESSON 3: EQUIVALENT FRACTIONS

### Study: Equivalent Fractions

Learn about building equivalent fractions in order to add and subtract fractions with unlike denominators. Learn about comparing equivalent fractions.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Adding and Subtracting Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

### Quiz: Comparing Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 4: SIMPLIFYING FRACTIONS

### Study: Simplifying Fractions

Learn about finding common factors; dividing numerators and denominators by a common factor in order to simplify a fraction; putting a fraction in lowest terms; prime and composite numbers; and using a factor tree to find prime factorization.

Duration: 0 hrs 40 mins

### Checkpoint: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### Quiz: Finding Common Denominators

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### Quiz: Dividing by Common Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### Quiz: Simplifying Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Prime and Composite Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Prime Factorization**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 5: MIXED NUMBERS**

### **Study: Mixed Numbers**

Learn about proper and improper fractions, writing improper fractions as mixed numbers, and converting mixed numbers to improper fractions.

Duration: 0 hrs 40 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Converting Improper Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Converting Mixed Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 6: DIVIDING FRACTIONS**

### **Study: Dividing Fractions**

Learn the definition of reciprocals. Learn about finding reciprocals of fractions in order to divide them.

Duration: 0 hrs 40 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Finding Reciprocals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Dividing Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 7: ADDING AND SUBTRACTING FRACTIONS**

### **Study: Adding and Subtracting Fractions**

Learn about the smallest common denominator (the least common multiple of denominators) and about using prime factorization to find the least common multiple.

Duration: 0 hrs 40 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Adding and Subtracting Unlike Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Solving Equations with Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 8: DECIMALS AND PERCENTS**

### **Study: Decimals and Percents**

Learn about place value in integers and decimals, terminating and repeating decimals, finding decimal equivalents of fractions, and converting decimals to percents. Explore real-world examples of how to use percentages.

Duration: 0 hrs 40 mins

### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Converting Fractions to Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **Quiz: Converting Percents to Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 9: THE SET OF RATIONAL NUMBERS**

### **Study: The Set of Rational Numbers**

Learn about rational and irrational numbers and pi.

Duration: 0 hrs 40 mins

### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Rational Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 10: WRAP-UP**

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### **Review: Review Exercises**

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### **Discuss: Pieces of a Whole**

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### **Test (CS): Fractions and Decimals**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### **Test (TS): Fractions and Decimals**

Take a teacher-scored test to assess what you have learned in this unit.

## UNIT 5: MEASUREMENT

### LESSON 1: METRIC AND CUSTOMARY UNITS

#### Study: Metric and Customary Units

Explore the history of measurement in the forms of the metric system and the British/U.S. System of Units. Create derived units from more basic components, such as "kilometers per hour."

Duration: 0 hrs 40 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Customary Units

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

#### Quiz: Metric System

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### LESSON 2: CONVERTING UNITS

#### Study: Converting Units

Learn about converting between units from different systems, multiplication by one, and canceling units.

Duration: 0 hrs 40 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Canceling Units

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

#### Quiz: Converting Units

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### LESSON 3: ESTIMATION AND SCALE

#### Study: Estimation and Scale

Learn about scale of numbers, order of magnitude, powers of 10, estimating large numbers, and Fermi problems.

Duration: 0 hrs 40 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

#### Quiz: Estimation and Scale

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### LESSON 4: PRECISION IN MEASUREMENT

#### Study: Precision in Measurement

Learn about precision, accuracy, significant figures, multiplication, and addition.

Duration: 0 hrs 40 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Precision and Accuracy**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **Quiz: Significant Figures**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## **LESSON 5: APPLICATIONS OF MEASUREMENT**

### **Study: Applications of Measurement**

Learn about applications of units, unit conversions, estimation and scale, order of magnitude, precision, accuracy, and significant figures.

Duration: 0 hrs 40 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 20 mins

### **Quiz: Applications of Measurement**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## **LESSON 6: WRAP-UP**

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### **Review: Review Exercises**

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### **Discuss: To Convert or Not to Convert ...**

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### **Test (CS): Measurement**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### **Test (TS): Measurement**

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 6: SEMESTER 1 REVIEW AND EXAM**

### **LESSON 1: PREPARING FOR THE SEMESTER EXAM**

#### **Review: Semester Review**

Prepare for the semester exam by reviewing key concepts covered in this semester.

Duration: 1 hr

#### **Exam: Semester Exam**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

Duration: 0 hrs 50 mins Scoring: 250 points

## UNIT 7: SOLVING EQUATIONS WITH MULTIPLICATION AND DIVISION

### LESSON 1: SOLVING $AX = B$

#### Study: Solving $ax = b$

Learn about setting up a table; writing an equation to express a pattern; isolating a variable; dividing by the coefficient of a variable; and using a number line to solve equations in standard form.

Duration: 0 hrs 50 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Solving $ax = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### LESSON 2: THE LIGHTNING PROBLEM

#### Study: The Lightning Problem

Apply the rate formula for distance to determine how far away a thunder storm is based on the time delay between seeing lightning and hearing thunder.

Duration: 0 hrs 50 mins

### LESSON 3: SOLVING $X/A = B$

#### Study: Solving $x/a = b$

Learn about solving division problems using multiplication.

Duration: 0 hrs 50 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Solving $x/a = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### LESSON 4: INEQUALITIES

#### Study: Inequalities

Learn about solving inequalities by dividing by the coefficient of a variable. Learn about multiplying and dividing inequalities by negative numbers.

Duration: 0 hrs 50 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Solving Inequalities with Division

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

#### Quiz: Solving Inequalities with Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 18 points

### LESSON 5: WRAP-UP

#### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

### **Review: Review Exercise**

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr

### **Discuss: Looking Back in Time**

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### **Test (CS): Solving Equations with Multiplication and Division**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### **Test (TS): Solving Equations with Multiplication and Division**

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 8: EXPONENTS**

### **LESSON 1: DEFINITIONS AND EXAMPLES OF EXPONENTS**

#### **Study: Definitions and Examples of Exponents**

Learn the definitions of base, exponent, power, and exponential expression. Learn to use a table to illustrate real-world applications of exponents.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Definitions and Examples of Exponents**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **LESSON 2: EXPONENTS AND THE ORDER OF OPERATIONS**

#### **Study: Exponents and the Order of Operations**

Learn about evaluating expressions with exponents using the order of operations.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Exponents and the Order of Operations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **LESSON 3: LAWS OF EXPONENTS**

#### **Study: Laws of Exponents**

Learn about the multiplication law of exponents with positive and negative exponents; the rule for negative exponents; the division law of exponents; raising products and fractions to a power; and the power rule of exponents.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: The Multiplication Law of Exponents**



Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 26 points

#### **Quiz: Zero and Negative Exponents**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 28 points

#### **Quiz: The Division Law of Exponents**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

#### **Quiz: Raising Products and Fractions to a Power**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 26 points

#### **Quiz: The Power Rule of Exponents**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 12 points

### **LESSON 4: SCIENTIFIC NOTATION**

#### **Study: Scientific Notation**

Learn about expressing large numbers using scientific notation and about the form of scientific notation. Explore examples from elementary science.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Scientific Notation**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **LESSON 5: EXPONENTS IN GEOMETRY**

#### **Study: Exponents in Geometry**

Learn about using exponents to represent area and volume formulae. Explore units of area and volume.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Exponents in Geometry**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **LESSON 6: SQUARE ROOTS**

#### **Study: Square Roots**

Learn about fractional exponents; principal square roots; square roots of positive numbers; perfect squares; and negative square roots vs. square roots of negative numbers.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Square Roots**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## LESSON 7: RADICAL NOTATION

### Study: Radical Notation

Learn about radical signs and radicands. Explore laws of exponents that apply to radicals.

Duration: 0 hrs 50 mins

### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### Quiz: Radical Notation

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## LESSON 8: WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

### Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr

### Discuss: Thinking Big with Exponents

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### Test (CS): Exponents

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 72 points

### Test (TS): Exponents

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 9: SOLVING EQUATIONS WITH ROOTS AND POWERS

### LESSON 1: SOLVING $|x| = b$

#### Study: Solving $|x| = b$

Learn about finding solution sets for absolute values using a number line.

Duration: 0 hrs 50 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Solving $|x| = b$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

### LESSON 2: SOLVING $x^2 = b$

#### Study: Solving $x^2 = b$

Learn about evaluating expressions with exponents by isolating the variable and finding the principal square root of both sides.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Solving  $x^2 = b$** 

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

**LESSON 3: SOLVING &RADIC; $X = B$** **Study: Solving  $\sqrt{x} = b$** 

Learn to solve equations involving square roots.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Solving  $\sqrt{x} = b$** 

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

**LESSON 4: INEQUALITIES AND ABSOLUTE VALUE****Study: Inequalities and Absolute Value**

Learn about using a number line to find solution sets of equations with absolute values.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Inequalities and Absolute Value**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 5: INEQUALITIES AND  $x^2$** **Study: Inequalities and  $x^2$** 

Learn about solving inequalities with exponents.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Inequalities and  $x^2$** 

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**LESSON 6: INEQUALITIES AND &RADIC; $X$** **Study: Inequalities and  $\sqrt{x}$** 

Learn about solving inequalities with square roots by squaring both sides and plotting solution sets on a number line.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Inequalities and  $\sqrt{x}$**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 7: THE PYTHAGOREAN THEOREM

### Study: The Pythagorean Theorem

Learn the definition of right angles and triangles. Explore the formula for the Pythagorean theorem by using the theorem to solve a real-world problem.

Duration: 0 hrs 50 mins

### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### Quiz: The Pythagorean Theorem

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## LESSON 8: WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

### Review: Review Exercise

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr

### Discuss: Square Roots in the Real World

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### Test (CS): Solving Equations with Roots and Powers

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### Test (TS): Solving Equations with Roots and Powers

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 10: MULTI-STEP EQUATIONS

### LESSON 1: SOLVING $AX + B = C$

#### Study: Solving $ax + b = c$

Identify the strategy for solving one-step equations and apply it to multi-step equations. Perform the reverse of two or more operations on an equation. Build a variable expression to determine how to isolate the variable.

Duration: 0 hrs 50 mins

#### Checkup: Practice Problems

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### Quiz: Solving $ax + b = c$

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 28 points

### LESSON 2: COLLECTING LIKE TERMS

#### Study: Collecting Like Terms

Learn definitions of like terms and constants. Learn about collecting like terms, adding and subtracting coefficients of like terms,

and solving equations with unlike terms.

Duration: 0 hrs 50 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Identifying Like Terms**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

### **Quiz: Collecting Like Terms**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## **LESSON 3: USING THE DISTRIBUTIVE PROPERTY**

### **Study: Using the Distributive Property**

Learn about using the distributive property with variable expressions then collecting like terms.

Duration: 0 hrs 50 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Using the Distributive Property**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 30 points

## **LESSON 4: VARIABLES ON BOTH SIDES OF THE EQUATION**

### **Study: Variables on Both Sides of the Equation**

Learn about adding or subtracting variable expressions from both sides of an equation and about collecting variable terms on one side of an equation. Learn about equations with no solution.

Duration: 0 hrs 50 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Variables on Both Sides of the Equation - Basic**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 28 points

### **Quiz: Variables on Both Sides of the Equation - Advanced**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

## **LESSON 5: THE PROFIT PROBLEM**

### **Study: The Profit Problem**

Apply methods from this unit to the real-world problem of calculating profit.

Duration: 0 hrs 50 mins

## **LESSON 6: WRAP-UP**

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

### **Review: Review Exercise**

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr

### **Discuss: The Importance of Strategy**

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### **Test (CS): Multi-Step Equations**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 72 points

### **Test (TS): Multi-Step Equations**

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 11: LINEAR EQUATIONS**

### **LESSON 1: CARTESIAN COORDINATE SYSTEMS**

#### **Study: Cartesian Coordinate Systems**

Represent real-world information with points instead of bars on a graph. Discover that the Cartesian coordinate system is made up of two number lines. Identify the origin, the  $x$ -axis, the  $y$ -axis, and the four quadrants on the  $xy$ -plane. Graph sets of coordinates known as ordered pairs.

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Reading Data from Graphs**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 20 points

#### **Quiz: Identifying Parts of a Cartesian Coordinate Grid**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 26 points

#### **Quiz: Plotting Coordinate Pairs**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

#### **Quiz: Points in the Four Quadrants**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

### **LESSON 2: LINES IN THE $XY$ -PLANE**

#### **Study: Lines in the $xy$ -plane**

Learn about plotting solution set values of equations as data points on the  $xy$ -plane (the graph of the equation).

Duration: 0 hrs 50 mins

#### **Checkup: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

#### **Quiz: Lines in the $xy$ -plane**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

### **LESSON 3: SLOPE**

**Study: Slope**

Learn about rise, run, and the slope formula. Learn about rearranging a formula to compute rise and run, negative zero, and undefined slopes.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Finding the Slope of a Line - Basic**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

**Quiz: Finding the Slope of a Line - Advanced**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

**Quiz: Identifying Types of Slopes**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

**LESSON 4: PARALLEL AND PERPENDICULAR LINES****Study: Parallel and Perpendicular Lines**

Define parallel lines and the relationship of their slopes. Identify perpendicular lines, how they intersect, and the product of their slopes as negative reciprocals.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Parallel and Perpendicular Lines**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

**LESSON 5: SLOPE AND EQUATIONS****Study: Slope and Equations**

Learn about finding the equation of a line. Learn about slope as the coefficient of the variable in the equation of the line ( $y = mx$ ).

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

**Quiz: Slope and Equations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 22 points

**LESSON 6: SLOPE-INTERCEPT FORM****Study: Slope-Intercept Form**

Determine the equations of lines that don't pass through the origin. Plot a set of points to find the graph, slope, and  $y$ -intercept equation of a line. Discover the general form of the slope-intercept equation of a line.

Duration: 0 hrs 50 mins

**Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Slope-Intercept Form**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 28 points

## **LESSON 7: POINT-SLOPE FORM**

### **Study: Point-Slope Form**

Learn about the point-slope equation and about manipulating equations into slope-intercept form.

Duration: 0 hrs 50 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Point-Slope Equation of a Line**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 24 points

### **Quiz: Point-Slope Equation of a Line**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 16 points

## **LESSON 8: LINEAR INEQUALITIES**

### **Study: Linear Inequalities**

Learn about graphing inequalities and the half-plane. Discover three steps to graphing inequalities.

Duration: 0 hrs 50 mins

### **Checkpoint: Practice Problems**

Complete a set of practice problems to hone your calculation skills.

Duration: 0 hrs 30 mins

### **Quiz: Linear Inequalities**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 26 points

## **LESSON 9: WRAP-UP**

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 1 hr Scoring: 100 points

### **Review: Review Exercises**

Take part in interactive games to review unit material in preparation for upcoming assessments.

Duration: 1 hr

### **Discuss: Lines and Graphs Beyond Math Class**

Take part in a three- to five-question discussion about applying methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### **Test (CS): Linear Equations**

Take a computer-scored test to assess what you have learned in this unit.

Duration: 0 hrs 40 mins Scoring: 75 points

### **Test (TS): Linear Equations**

Take a teacher-scored test to assess what you have learned in this unit.

Duration: 0 hrs 30 mins Scoring: 50 points



## UNIT 12: SEMESTER 2 REVIEW AND EXAM

### LESSON 1: PREPARING FOR THE SEMESTER EXAM

#### **Review: Semester Review**

Prepare for the semester exam by reviewing key concepts covered in this semester.

Duration: 1 hr

#### **Exam: Semester Exam**

Take a computer-scored exam to demonstrate your mastery of concepts and skills covered in this semester.

Duration: 0 hrs 50 mins Scoring: 224 points