

Math Foundations I offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress in acquiring 3rd- to 5th-grade skills. The course is appropriate for use as remediation for students in grades 6 to 12. When used in combination, Math Foundations I and Math Foundations II (covering grades 6 to 8) effectively remediate computational skills and conceptual understanding needed to undertake high school-level math courses with confidence.

Math Foundations I empowers students to progress at their optimum pace through over 80 semester hours of interactive instruction and assessment spanning 3rd- to 5th-grade math skills. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Early in the course, students develop general strategies for honing their problem-solving skills. Subsequent units provide a problem-solving strand that asks students to practice applying specific math skills to a variety of real-world contexts.

This course is built to state standards and informed by the National Council of Teachers of Math (NCTM) standards and Curricular Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence.

Length: Two semesters

## UNIT 1: INTRODUCTION TO PROBLEM SOLVING

### LESSON 1: BUILDING BASIC WORD PROBLEMS

#### Study: Building Basic Word Problems

Learn how to convert number sentences into addition or subtraction word problems. Practice this skill using sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Building Basic Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 2: A FOUR-STEP APPROACH

#### Study: A Four-Step Approach

Learn the four steps for solving word problems. Apply the four steps to sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: A Four-Step Approach

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 3: TOO MUCH OR TOO LITTLE INFORMATION

#### Study: Too Much or Too Little Information

Learn about determining if there is enough information to solve a given problem, identifying missing information, and separating relevant from irrelevant information. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Too Much or Too Little Information**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## **LESSON 4: DRAW A DIAGRAM**

### **Study: Draw a Diagram**

Learn what information to include in a diagram of a problem. Practice this skill using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Draw a Diagram**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## **LESSON 5: USE A MODEL OR ACT IT OUT**

### **Study: Use a Model or Act it Out**

Use sample problems to learn when and how to act out a problem or make a model.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Use a Model or Act it Out**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## **LESSON 6: MAKE A LIST**

### **Study: Make a List**

Learn the steps for making a list in order to solve a word problem. Explore strategies for checking your answers.

Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Make a List**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## **LESSON 7: BUILD A CHART AND FIND A PATTERN**

### **Study: Build a Chart and Find a Pattern**

Learn about collecting data in charts, identifying patterns in order to solve word problems, and completing charts in order to answer questions. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Build a Chart and Find a Pattern**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

**LESSON 8: GUESS AND CHECK****Study: Guess and Check**

Review the four problem solving steps. Learn how to make logical guesses to solve a problem. Solve word problems using this strategy.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Guess and Check**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

**LESSON 9: WORK BACKWARD****Study: Work Backward**

Learn about starting with a solution and working backward to solve a word problem. Learn how to check your answers by working forward. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Work Backward**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

**LESSON 10: BUILDING EQUATIONS****Study: Building Equations**

Learn about setting up an equation using information in a word problem and about choosing the correct operation(s). Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Building Equations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

**LESSON 11: DEDUCTIVE REASONING****Study: Deductive Reasoning**

Learn the definition of deductive reasoning. Practice making conclusions and deducing which statements in a problem are true. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Deductive Reasoning**

Take a quiz to assess your understanding of the material.

## LESSON 12: INDUCTIVE REASONING

### Study: Inductive Reasoning

Explore inductive reasoning and using induction to continue a pattern. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Inductive Reasoning

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## LESSON 13: LOGIC PUZZLES

### Study: Logic Puzzles

Learn about organizing logic data in a grid and about direct and indirect information. Practice these skills using sample logic problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Logic Puzzles

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 6 points

## LESSON 14: PROBLEM SOLVING

### Study: Problem Solving

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### Practice: Assignment

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 15: INTRODUCTION TO PROBLEM SOLVING WRAP-UP

### Review: Introduction to Problem Solving

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Introduction to Problem Solving

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Introduction to Problem Solving

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

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 2: MULTIPLICATION

### LESSON 1: REVIEW OF ADDITION

#### Study: Review of Addition

Learn to identify parts of an addition sentence and practice adding on the number line. Use an addition table to show all of the addition facts for the numbers 0 to 9.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Review of Addition**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 2: REVIEW OF SUBTRACTION****Study: Review of Subtraction**

Explore the use of subtraction as a means to take things away from a group. Identify and learn the different parts of a subtraction equation and practice subtraction on a number line.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Review of Subtraction**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 3: INTRODUCTION TO MULTIPLICATION****Study: Introduction to Multiplication**

Learn about multiplication as repeated addition, the multiplication symbol, sentences, factors, and products.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Introduction to Multiplication**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 4: MULTIPLYING BY 0 AND 1****Study: Multiplying by 0 and 1**

Learn how zero times any number equals zero and one times any number equals the number itself. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Multiplying by 0 and 1**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 5: MULTIPLICATION ARRAYS****Study: Multiplication Arrays**

Show multiplication problems using a rectangular array, find arrays in a multiplication table, and solve problems using a multiplication array.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Multiplication Arrays**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 6: MULTIPLICATION FACTS WITH TABLE****Study: Multiplication Facts with Table**

Review the connection between multiplication and addition and create a multiplication table. Use this table to practice and learn multiplication facts.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Multiplication Facts with Table**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 7: TWO-DIGIT BY ONE-DIGIT MULTIPLICATION****Study: Two-Digit by One-Digit Multiplication**

Learn about lining up by place value and about carrying numbers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Two-Digit by One-Digit Multiplication**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 8: TWO-DIGIT BY TWO-DIGIT MULTIPLICATION****Study: Two-Digit by Two-Digit Multiplication**

Learn about lining up by place value, starting with partial answers, and adding partial answers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Two-Digit by Two-Digit Multiplication**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 9: THREE-DIGIT BY ONE-DIGIT MULTIPLICATION****Study: Three-Digit by One-Digit Multiplication**

Learn about multiplication as repeated addition, lining up by place value, and starting with partial answers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Three-Digit by One-Digit Multiplication**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 10: THREE-DIGIT MULTIPLICATION

### Study: Three-Digit Multiplication

Learn about three-digit by two-digit problems, lining up by place value, partial answers and their sums, and three-digit by three-digit problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Three-Digit Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 11: MULTIPLYING THREE OR MORE FACTORS

### Study: Multiplying Three or More Factors

Learn to use the commutative and associative properties to multiply more than two single-digit factors. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Multiplying Three or More Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 12: PROBLEM SOLVING

### Study: Problem Solving

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 30 mins

### Practice: Assignment

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 13: MULTIPLICATION WRAP-UP

### Review: Multiplication

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Multiplication

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Multiplication

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

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 3: DIVISION

### LESSON 1: INTRODUCTION TO DIVISION

#### Study: Introduction to Division

Learn about separating equal amounts, symbols and parts of a division sentence, division as the reverse of multiplication, and using the multiplication table to solve division problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### **Quiz: Introduction to Division**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 2: DIVISION WITH 0 AND 1**

### **Study: Division with 0 and 1**

Explore what happens when you divide a number by zero or zero by another number. Investigate what happens when dividing a number by one or by itself. Practice your division skills.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Division with 0 and 1**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 3: DIVISION FACTS WITH TABLE**

### **Study: Division Facts with Table**

Learn how to use the multiplication table to solve division problems. Practice this skill using flash cards.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Division Facts with Table**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 4: UNDERSTANDING REMAINDERS**

### **Study: Understanding Remainders**

Review how to divide numbers into equal amounts. Discover what happens when you have something left over after making equal groups. Study division problems that have remainders.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Understanding Remainders**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 5: INTRODUCTION TO LONG DIVISION**

### **Study: Introduction to Long Division**

Learn about setting up a long-division problem. Observe a demonstration of steps with problems having single-digit divisors. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Introduction to Long Division**



Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 6: LONG DIVISION WITH REMAINDERS

### Study: Long Division with Remainders

Observe a demonstration of estimating the divisor using multiplication and noting the remainder. Practice these skills using sample problems that have single-digit divisors and remainders.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Long Division with Remainders

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 7: LONG DIVISION WITH TWO-DIGIT DIVISORS

### Study: Long Division with Two-Digit Divisors

Learn how to break down a dividend when dividing larger numbers. Study the steps for dividing by a two-digit divisor. Practice solving problems with two-digit divisors.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Long Division with Two-Digit Divisors

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 8: LONG DIVISION WITH THREE-DIGIT DIVISORS

### Study: Long Division with Three-Digit Divisors

Learn to apply the steps of long division to problems with three-digit divisors and dividends. Practice this skill using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Long Division with Three-Digit Divisors

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 9: CHECKING DIVISION

### Study: Checking Division

Learn about using multiplication to check division problems and about adding remainders. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Checking Division

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 10: PROBLEM SOLVING

### Study: Problem Solving

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### Practice: Assignment

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 11: DIVISION WRAP-UP

### Review: Division

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Division

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Division

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

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 4: MULTIPLICATION AND DIVISION CONCEPTS

### LESSON 1: PROPERTIES OF MULTIPLICATION

#### Study: Properties of Multiplication

Learn about commutative and associative properties and using the properties to solve multiplication (but not division) problems. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Properties of Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 2: PLACE VALUE

#### Study: Place Value

Use periods to figure out a digit's place value. Determine place value up to the hundred-millions place.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Place Value

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 3: INVERSE OPERATIONS

#### Study: Inverse Operations

Explore how to reverse the action of one operation with another operation. Use the number line tool to experiment with inverse operations, such as addition and subtraction, or multiplication and division. Learn about the exception of zero in division. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### **Quiz: Inverse Operations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 4: ROUNDING TO THE 10'S, 100'S, AND 1000'S**

### **Study: Rounding to the 10's, 100's, and 1000's**

Identify key words that ask you to round a number. Learn the steps to round a given number to the 10s, 100s, or 1000s place.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Rounding to the 10's, 100's, and 1000's**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 5: ESTIMATING PRODUCTS**

### **Study: Estimating Products**

Review when to use estimation. Compare products produced by overestimating and underestimating. Use the concept of rounding to find the best product estimates.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Estimating Products**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 6: PRIME NUMBERS**

### **Study: Prime Numbers**

Learn about number factors, the definition of a prime number, and using a rectangle to find primes. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Prime Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 7: FACTORS**

### **Study: Factors**

Learn about factor pairs and using factor pairs to find all factors of a given number.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Factors**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 8: COMMON FACTORS

### Study: Common Factors

Observe a demonstration of the steps for finding the greatest common factor, or GCF. Practice this skill using a sample problem.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Common Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 9: PRIME FACTORIZATION

### Study: Prime Factorization

Learn about prime and composite numbers and how the "footprint" of a composite number ("factorprint!") is its prime factorization. Practice these skills using factor-tree sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Prime Factorization

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 10: MULTIPLES

### Study: Multiples

Learn about finding multiples using skip-counting, division, or multiplication. Explore common multiples and steps for finding the least common multiple, or LCM. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Multiples

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 11: GROUPING WITH PARENTHESES

### Study: Grouping with Parentheses

Learn about using grouping to define order of operations. Practice this skill using sample problems.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Grouping With Parentheses

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 12: MULTIPLYING BY 10 AND 100

**Study: Multiplying by 10 and 100**

Learn about adding one or two zeros to the number being multiplied. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Multiplying by 10 and 100**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 13: PROBLEM SOLVING****Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

**Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

**LESSON 14: MULTIPLICATION AND DIVISION CONCEPTS WRAP-UP****Review: Multiplication and Division Concepts**

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

**Test (CS): Multiplication and Division Concepts**

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

Duration: 0 hrs 30 mins Scoring: 60 points

**Test (TS): Multiplication and Division Concepts**

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

Duration: 0 hrs 30 mins Scoring: 50 points

**UNIT 5: FRACTIONS****LESSON 1: THE MEANING OF FRACTIONS****Study: The Meaning of Fractions**

Learn about writing fractions and about the numerator and denominator. Learn to read fractions.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: The Meaning of Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 2: THE MEANING OF FRACTIONS: PART OF A GROUP****Study: The Meaning of Fractions: Part of a Group**

Learn about the role of the numerator and denominator in fractions. Learn about representing parts of groups.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: The Meaning of Fractions: Part of a Group**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 3: FRACTIONS WITH ZEROS

#### Study: Fractions with Zeros

Learn about how fractions with zero as the numerator equal zero and how fractions with zero as the denominator are undefined.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Fractions with Zeros

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 4: ESTIMATING FRACTIONS

#### Study: Estimating Fractions

Learn about comparing common fractions and estimating fractional amounts and mixed numbers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Estimating Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 5: LOCATING FRACTIONS ON A NUMBER LINE

#### Study: Locating Fractions on a Number Line

Learn about the parts of the number line that are between units, dividing the number line by a denominator, and finding improper fractions on the number line. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Locating Fractions on a Number Line

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 6: COMPARING LIKE FRACTIONS

#### Study: Comparing Like Fractions

Learn about comparing numerators. Practice this skill using a sample problem.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Comparing Like Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 7: EQUIVALENT FRACTIONS

**Study: Equivalent Fractions**

Compare pairs of fractions and identify different fractions that represent the same amount. Find equivalent fractions using fraction pieces and multiplication.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Equivalent Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 8: SIMPLIFYING FRACTIONS****Study: Simplifying Fractions**

Learn to reduce a fraction by dividing the numerator and denominator by the same nonzero number greater than 1. Learn to divide by the GCF to get a fraction's simplest form. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Study: Flash Cards**

Participate in a flash card activity to practice simplifying fractions.

Duration: 0 hrs 10 mins

**Quiz: Simplifying Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 9: FINDING COMMON DENOMINATORS****Study: Finding Common Denominators**

Learn about rewriting fractions to get common denominators, finding the LCM, and multiplying denominators. Practice these skills using sample problems.

Duration: 0 hrs 25 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 20 mins Scoring: 10 points

**LESSON 10: COMPARING UNLIKE FRACTIONS****Study: Comparing Unlike Fractions**

Learn about finding the LCD in order to compare fractions. Practice this skill using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Comparing Unlike Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 11: FRACTIONS OF WHOLE NUMBERS**

**Study: Fractions of Whole Numbers**

Learn about dividing more than one item or number and renaming improper fractions as whole numbers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Fractions of Whole Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 12: MIXED NUMBERS AND IMPROPER FRACTIONS****Study: Mixed Numbers and Improper Fractions**

Learn about the combination of a whole number and a fraction, reading mixed numbers, and writing improper fractions. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Mixed Numbers and Improper Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 13: COMPARING AND ORDERING MIXED NUMBERS****Study: Comparing and Ordering Mixed Numbers**

Learn about comparing whole number parts first, rewriting fractional parts to get common denominators, and ordering more than two mixed numbers. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Comparing and Ordering Mixed Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 14: CONVERTING MIXED NUMBERS AND IMPROPER FRACTIONS****Study: Converting Mixed Numbers and Improper Fractions**

Learn about finding the numerator in order to convert from a mixed number to an improper fraction and dividing in order to convert from an improper fraction to a mixed number. Practice these skills using sample problems.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Converting Mixed Numbers and Improper Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 15: PROBLEM SOLVING****Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.



Duration: 0 hrs 25 mins

### **Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## **LESSON 16: FRACTIONS WRAP-UP**

### **Review: Fractions**

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

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

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

Duration: 0 hrs 30 mins Scoring: 60 points

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

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 6: DECIMALS**

### **LESSON 1: THE MEANING OF DECIMALS**

#### **Study: The Meaning of Decimals**

Identify the dot in decimal numbers and learn how to read them aloud. Explore how decimal points separate whole units from parts of a unit.

Duration: 0 hrs 25 mins

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

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

Duration: 0 hrs 20 mins

#### **Quiz: The Meaning of Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

### **LESSON 2: PLACE VALUE WITH DECIMALS**

#### **Study: Place Value with Decimals**

Learn about place names for numbers to the right of a decimal point, how value decreases when moving to the right of a decimal point, and comparing and reading decimal values. Practice these skills using sample 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: Place Value with Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

### **LESSON 3: LOCATING DECIMALS ON A NUMBER LINE**

#### **Study: Locating Decimals on a Number Line**

Learn about finding parts of a whole on the number line and writing fractions from the number line in decimal form. Practice these skills using sample 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: Locating Decimals on a Number Line**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 10 points

## **LESSON 4: COMPARING AND ORDERING DECIMALS**

### **Study: Comparing and Ordering Decimals**

Discover how to line up decimal numbers to compare them. Learn how to compare each place in a decimal number. Put decimal numbers in order from greatest to least.

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: Comparing and Ordering Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 10 points

## **LESSON 5: ROUNDING WITH DECIMALS**

### **Study: Rounding with Decimals**

Review rounding whole numbers, applying the same rules to rounding decimals, and how rounding can affect higher place values. Practice these skills using sample 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: Rounding with Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 10 points

## **LESSON 6: PROBLEM SOLVING**

### **Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### **Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## **LESSON 7: DECIMALS WRAP-UP**

### **Review: Decimals**

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 10 mins

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

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

Duration: 0 hrs 30 mins Scoring: 60 points

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

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 7: OPERATIONS WITH FRACTIONS AND DECIMALS**

### **LESSON 1: WORD PROBLEMS WITH FRACTIONS**

#### **Study: Word Problems With Fractions**

Review the meaning of fractions and four steps to solving word problems. Practice solving word problems involving

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: Word Problems With Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 14 points

## **LESSON 2: ADDING AND SUBTRACTING LIKE FRACTIONS**

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

Review addition and subtraction with whole numbers. Practice these skills using sample problems in which you must add and subtract fractions with like denominators.

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: 15 points

## **LESSON 3: ADDING AND SUBTRACTING LIKE FRACTIONS IN WORD PROBLEMS**

### **Study: Adding and Subtracting Like Fractions in Word Problems**

Review the four steps of problem-solving, applying problem-solving strategies in order to analyze word problems with fractions, and rewriting word problems as number problems. Practice these skills using sample 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: Adding and Subtracting Like Fractions in Word Problems**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 11 points

## **LESSON 4: ADDING AND SUBTRACTING UNLIKE FRACTIONS**

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

Learn about rewriting fractions in order to get equivalent fractions, using the least common denominator, or LCD, and adding and subtracting equivalent fractions. Practice these skills using sample 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: Adding and Subtracting Unlike Fractions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 14 points

## **LESSON 5: ADDING AND SUBTRACTING UNLIKE FRACTIONS IN WORD PROBLEMS**

### **Study: Adding and Subtracting Unlike Fractions in Word Problems**

Review the four steps of problem-solving, applying problem-solving strategies in order to analyze word problems with fractions, rewriting word problems as number problems, and rewriting fractions in order to get equivalent fractions. Practice these skills using sample 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: Adding and Subtracting Unlike Fractions in Word Problems**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

## **LESSON 6: ADDING MIXED NUMBERS**

### **Study: Adding Mixed Numbers**

Learn the definition of a mixed number. Learn about adding components, the order of addition with mixed numbers, adding mixed numbers whose fractions have different denominators, and when and how to carry over whole numbers. Practice these skills using sample 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: Adding Mixed Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

## **LESSON 7: SUBTRACTING MIXED NUMBERS**

### **Study: Subtracting Mixed Numbers**

Learn about the order of subtraction with mixed numbers, subtracting mixed numbers whose fractions have different denominators, and when and how to borrow from whole numbers. Practice these skills using sample 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: Subtracting Mixed Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

## **LESSON 8: ADDING AND SUBTRACTING FRACTIONS AND WHOLE NUMBERS**

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

Learn about adding and subtracting different combinations of fractions and whole numbers with like or unlike denominators. Learn about changing improper fractions to mixed numbers and about borrowing fractions from whole numbers in order to solve problems. Practice these skills using sample 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: Adding and Subtracting Fractions and Whole Numbers**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 15 points

## **LESSON 9: ADDING AND SUBTRACTING DECIMALS**

### **Study: Adding and Subtracting Decimals**

Review place value to the right of a decimal point, lining up decimal points to add and subtract, and regrouping using zeros as place value holders. Practice these skills using sample 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: Adding and Subtracting Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 25 mins Scoring: 10 points

## **LESSON 10: DECIMALS AND MONEY**

### **Study: Decimals and Money**

Learn about writing values of bills and coins as decimals, adding and subtracting money using coins and bills, and using decimals. Practice these skills using sample 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: Decimals and Money**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 11: ADDING AND SUBTRACTING DECIMALS IN WORD PROBLEMS**

### **Study: Adding and Subtracting Decimals in Word Problems**

Review problem-solving steps and converting word problems into number problems with decimals. Practice adding and subtracting decimals using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Adding and Subtracting Decimals in Word Problems**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 12: ESTIMATING SUMS AND DIFFERENCES WITH DECIMALS**

### **Study: Estimating Sums and Differences with Decimals**

Learn about rounding decimal values to the nearest whole number and using larger place values for larger numbers. Understand how rounding to different place values affects estimates. Practice estimating decimal sums and differences using sample problems.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Estimating Sums and Differences with Decimals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 13: PROBLEM SOLVING**

### **Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### **Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 14: OPERATIONS WITH FRACTIONS AND DECIMALS WRAP-UP

### Review: Operations with Fractions and Decimals

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Operations with Fractions and Decimals

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Operations with Fractions and Decimals

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

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 8: 2-D GEOMETRY

### LESSON 1: POINTS, SEGMENTS, RAYS, AND LINES

#### Study: Points, Segments, Rays, and Lines

Discover the meaning of the word *geometry*. Identify basic geometric objects. Learn how to name points, segments, rays, and lines.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Points, Segments, Rays, and Lines

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 2: IDENTIFYING PARTS OF ANGLES

#### Study: Identifying Parts of Angles

Explore the definitions and naming of basic geometric objects.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Identifying Parts of Angles

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

### LESSON 3: CLASSIFYING ANGLES

#### Study: Classifying Angles

Explore angles, vertices, and sides. Learn about naming angles. Practice naming angles.

Duration: 0 hrs 25 mins

#### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Classifying Angles

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 9 points

### LESSON 4: MEASURING ANGLES WITH A PROTRACTOR

**Study: Measuring Angles with a Protractor**

Learn about measuring angles and classifying by degrees. Explore the definitions of acute, right, and obtuse angles. Practice classifying angles by degrees.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Measuring Angles with a Protractor**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 5: PARALLEL, INTERSECTING, AND PERPENDICULAR PATHS****Study: Parallel, Intersecting, and Perpendicular Paths**

Learn the steps for measuring angles with a protractor. Practice using a protractor.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Parallel, Intersecting, and Perpendicular Paths**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 6: OPEN AND CLOSED FIGURES****Study: Open and Closed Figures**

Explore intersecting, perpendicular, and parallel lines. Practice identifying types of lines.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Open and Closed Figures**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 7: IDENTIFYING POLYGONS****Study: Identifying Polygons**

Learn the definitions of open and closed geometric figures.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Identifying Polygons**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 8: CLASSIFYING TRIANGLES****Study: Classifying Triangles**

Learn the definition of a polygon. Explore different types of polygons, including common examples such as triangles, quadrilaterals, and pentagons. Practice identifying different polygons.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Classifying Triangles**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 9: CLASSIFYING QUADRILATERALS**

### **Study: Classifying Quadrilaterals**

Learn about classifying triangles by lengths of sides. Learn what isosceles, equilateral, and scalene triangles are. Practice classifying triangles by side length.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Classifying Quadrilaterals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 10: IDENTIFYING PARTS OF CIRCLES**

### **Study: Identifying Parts of Circles**

Learn the definition of a quadrilateral. Explore examples of common quadrilaterals, such as rectangles, squares, rhombi, and all subsets of parallelogram. Learn the definition of a trapezoid and explore examples of trapezoids. Practice identifying quadrilaterals.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Identifying Parts of Circles**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 11: LINES OF SYMMETRY**

### **Study: Lines of Symmetry**

Learn about the definition and parts of a circle, including the center, radius, diameter, chords, and circumference. Practice identifying the parts of a circle.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Lines of Symmetry**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 12: SLIDING, TURNING, AND FLIPPING SHAPES**

### **Study: Sliding, Turning, and Flipping Shapes**

Learn the definition of a line of symmetry and how to find one. Explore examples of objects with one or more lines of symmetry or with no lines of symmetry. Practice identifying lines of symmetry.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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



Duration: 0 hrs 20 mins

### **Quiz: Sliding, Turning, and Flipping Shapes**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 13: CONGRUENCE AND SIMILARITY**

### **Study: Congruence and Similarity**

Identify congruent and similar shapes. Slide, turn, and flip shapes to see if they are congruent or similar.

Duration: 0 hrs 25 mins

### **Checkup: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Congruence and Similarity**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 14: USING GEOMETRIC VOCABULARY**

### **Study: Using Geometric Vocabulary**

Explore the definition and examples of congruent and similar shapes. Practice determining congruence and similarity.

Duration: 0 hrs 25 mins

### **Checkup: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Using Geometric Vocabulary**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 15: PROBLEM SOLVING**

### **Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### **Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## **LESSON 16: 2-D GEOMETRY WRAP-UP**

### **Review: 2-D Geometry**

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### **Test (CS): 2-D Geometry**

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

Duration: 0 hrs 30 mins Scoring: 60 points

### **Test (TS): 2-D Geometry**

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **UNIT 9: PERIMETER AND AREA**

### **LESSON 1: PERIMETER**

#### **Study: Perimeter**

Find the perimeter of a 2-D shape by measuring its side lengths. Learn shortcuts for finding the perimeter of rectangles

and squares. Build rectangles or squares with a given perimeter.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Study: Flash Cards 1**

Participate in a flash card activity to practice finding perimeter.

Duration: 0 hrs 10 mins

### **Study: Flash Cards 2**

Participate in a flash card activity to practice building perimeter.

Duration: 0 hrs 10 mins

### **Quiz: Perimeter**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 2: INTRODUCTION TO AREA**

### **Study: Introduction to Area**

Learn the definition of perimeter and the formula for finding the perimeter of special shapes, such as rectangles and squares. Practice calculating perimeters.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Introduction to Area**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 3: AREA OF RECTANGLES AND SQUARES**

### **Study: Area of Rectangles and Squares**

Learn the definition of area and how to measure area with tiles. Practice calculating the area of real-world objects.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Area of Rectangles and Squares**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 4: AREA OF PARALLELOGRAMS**

### **Study: Area of Parallelograms**

Discover the connection between rectangles and parallelograms. Learn a shortcut for finding the area of a parallelogram. Practice building a parallelogram with a given area.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Area of Parallelograms**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 5: AREA OF TRIANGLES

### Study: Area of Triangles

Discover the connection between parallelograms and triangles. Learn a shortcut for finding the area of a triangle. Build a triangle with a given area.

Duration: 0 hrs 25 mins

### Checkup: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Area of Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 6: PROBLEM SOLVING

### Study: Problem Solving

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### Practice: Assignment

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 7: PERIMETER AND AREA WRAP-UP

### Review: Perimeter and Area

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Perimeter and Area

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Perimeter and Area

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

Duration: 0 hrs 30 mins Scoring: 50 points

## UNIT 10: 3-D GEOMETRY

### LESSON 1: THREE DIMENSIONS

#### Study: Three Dimensions

Learn about measuring three-dimensional figures.

Duration: 0 hrs 25 mins

#### Checkup: Practice Problems

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

Duration: 0 hrs 20 mins

#### Quiz: Three Dimensions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 9 points

### LESSON 2: INTRODUCTION TO VOLUME

#### Study: Introduction to Volume

Review how to find the area of a flat shape. Learn common units for measuring volume. Use cubes to find the volume of solid shapes.

Duration: 0 hrs 25 mins

#### Checkup: Practice Problems

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

Duration: 0 hrs 20 mins

### **Quiz: Introduction to Volume**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 3: VOLUME OF RECTANGULAR SOLIDS**

### **Study: Volume of Rectangular Solids**

Learn about the definition of solid shapes, the formula for volume, measuring in cubic units, and comparing volumes.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Volume of Rectangular Solids**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 4: POLYHEDRA**

### **Study: Polyhedra**

Explore the geometric properties of polyhedra.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Polyhedra**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 5: SURFACE AREA**

### **Study: Surface Area**

Learn the definition of surface area and calculate the surface area for a given geometric solid.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Surface Area**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 6: ESTIMATION AND UNITS**

### **Study: Estimation and Units**

Hone your area and volume estimation skills and practice choosing the appropriate units.

Duration: 0 hrs 25 mins

### **Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

### **Quiz: Estimation and Units**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## **LESSON 7: PROBLEM SOLVING**

**Study: Problem Solving**

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

**Practice: Assignment**

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

**LESSON 8: 3-D GEOMETRY WRAP-UP****Review: 3-D Geometry**

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

**Test (CS): 3-D Geometry**

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

Duration: 0 hrs 30 mins Scoring: 60 points

**Test (TS): 3-D Geometry**

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

Duration: 0 hrs 30 mins Scoring: 50 points

**UNIT 11: DATA ANALYSIS****LESSON 1: TYPES OF DATA****Study: Types of Data**

Begin your study of data analysis by categorizing different types of data.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Types of Data**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 2: FREQUENCY TABLES, LINE PLOTS, AND BAR GRAPHS****Study: Frequency Tables, Line Plots, and Bar Graphs**

Explore graphical representations of data in the forms of frequency tables, line plots, and bar graphs.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Frequency Tables, Line Plots, and Bar Graphs**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

**LESSON 3: STEM AND LEAF PLOTS AND HISTOGRAMS****Study: Stem and Leaf Plots and Histograms**

Explore graphical representations of data in the forms of stem and leaf plots and histograms.

Duration: 0 hrs 25 mins

**Checkpoint: Practice Problems**

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

Duration: 0 hrs 20 mins

**Quiz: Stem and Leaf Plots and Histograms**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 4: DATA PAIRS AND DOUBLE-BAR GRAPHS

### Study: Data Pairs and Double-Bar Graphs

Investigate various sets of data pairs and their properties.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Data Pairs and Double-Bar Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 5: DATA PAIRS AND SCATTER PLOTS

### Study: Data Pairs and Scatter Plots

Explore graphical representations of data in the forms of double bar graphs and scatter plots.

Duration: 0 hrs 25 mins

### Checkpoint: Practice Problems

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

Duration: 0 hrs 20 mins

### Quiz: Data Pairs and Scatter Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 10 points

## LESSON 6: PROBLEM SOLVING

### Study: Problem Solving

Learn strategies for solving a variety of application problems related to topics in this unit.

Duration: 0 hrs 25 mins

### Practice: Assignment

Submit your work for a set of problem-solving applications.

Duration: 0 hrs 30 mins Scoring: 30 points

## LESSON 7: DATA ANALYSIS WRAP-UP

### Review: Data Analysis

Review unit material in preparation for upcoming assessments.

Duration: 0 hrs 30 mins

### Test (CS): Data Analysis

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

Duration: 0 hrs 30 mins Scoring: 60 points

### Test (TS): Data Analysis

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

Duration: 0 hrs 30 mins Scoring: 50 points