

Math Foundations I offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress through 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 to hone 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.

The content is based on the National Council of Teachers of Math (NCTM) April 2006 publication, *Curricular Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence* and is aligned to state standards.

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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Building Basic Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: A Four-Step Approach

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Too Much or Too Little Information

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Draw a Diagram

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Use a Model or Act it Out

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Make a List

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Build a Chart and Find a Pattern

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Guess and Check

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Work Backward

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Building Equations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Deductive Reasoning

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 6 points

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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Inductive Reasoning

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Logic Puzzles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min 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 hr 30 min

Test (CS): Introduction to Problem Solving

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

Duration: 0 hr 30 min 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 hr 30 min Scoring: 50 points

LESSON 16: DIAGNOSTIC

Diagnostic: Introduction to Problem Solving

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice adding whole numbers.

Duration: 0 hr 10 min

Quiz: Review of Addition

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice subtracting whole numbers.

Duration: 0 hr 10 min

Quiz: Review of Subtraction

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice introductory multiplication.

Duration: 0 hr 10 min

Quiz: Introduction to Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Multiplying by 0 and 1

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Multiplication Arrays

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice multiplication facts with table.

Duration: 0 hr 10 min

Quiz: Multiplication Facts with Table

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice two-digit by one-digit multiplication.

Duration: 0 hr 10 min

Quiz: Two-Digit by One-Digit Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice two-digit by two-digit multiplication.

Duration: 0 hr 10 min

Quiz: Two-Digit by Two-Digit Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice three-digit by one-digit multiplication.

Duration: 0 hr 10 min

Quiz: Three-Digit by One-Digit Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice three-digit multiplication.

Duration: 0 hr 10 min

Quiz: Three-Digit Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Multiplying Three or More Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 30 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 13: MULTIPLICATION WRAP-UP

Review: Multiplication

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): Multiplication

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Multiplication

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 14: DIAGNOSTIC

Diagnostic: Multiplication

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice introductory division.

Duration: 0 hr 10 min

Quiz: Introduction to Division

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Division with 0 and 1

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice division facts with table.

Duration: 0 hr 10 min

Quiz: Division Facts with Table

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Understanding Remainders

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Introduction to Long Division

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice long division with remainders.

Duration: 0 hr 10 min

Quiz: Long Division with Remainders

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice long division with two-digit divisors and no remainders.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice long division with two-digit divisors and remainders.

Duration: 0 hr 10 min

Quiz: Long Division with Two-Digit Divisors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice long division with three-digit divisors.

Duration: 0 hr 10 min

Quiz: Long Division with Three-Digit Divisors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Checking Division

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 11: DIVISION WRAP-UP

Review: Division

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): Division

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Division

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 12: DIAGNOSTIC

Diagnostic: Division

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Properties of Multiplication

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Place Value

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice working with inverse operations.

Duration: 0 hr 10 min

Quiz: Inverse Operations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice rounding to the 10's, 100's and 1,000's.

Duration: 0 hr 10 min

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

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice estimating products.

Duration: 0 hr 10 min

Quiz: Estimating Products

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Prime Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Common Factors

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Prime Factorization

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Multiples

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Grouping With Parentheses

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Multiplying by 10 and 100

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min 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 hr 30 min

Test (CS): Multiplication and Division Concepts

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

Duration: 0 hr 30 min 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 hr 30 min Scoring: 50 points

LESSON 15: DIAGNOSTIC

Diagnostic: Multiplication and Division Concepts

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to better understand the meaning of fractions.

Duration: 0 hr 10 min

Quiz: The Meaning of Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: The Meaning of Fractions: Part of a Group

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Fractions with Zeros

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Estimating Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Locating Fractions on a Number Line

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice comparing like fractions.

Duration: 0 hr 10 min

Quiz: Comparing Like Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Equivalent Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice simplifying fractions.

Duration: 0 hr 10 min

Quiz: Simplifying Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice finding common denominators.

Duration: 0 hr 10 min

Quiz: Finding Common Denominators

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice comparing unlike fractions.

Duration: 0 hr 10 min

Quiz: Comparing Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Fractions of Whole Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Mixed Numbers and Improper Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Comparing and Ordering Mixed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Converting Mixed Numbers and Improper Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 16: FRACTIONS WRAP-UP

Review: Fractions

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): Fractions

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Fractions

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 17: DIAGNOSTIC

Diagnostic: Fractions

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: The Meaning of Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Place Value with Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Locating Decimals on a Number Line

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Comparing and Ordering Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice rounding with decimals.

Duration: 0 hr 10 min

Quiz: Rounding with Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 7: DECIMALS WRAP-UP

Review: Decimals

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 10 min

Test (CS): Decimals

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Decimals

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 8: DIAGNOSTIC

Diagnostic: Decimals

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 40 min Scoring: 30 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Word Problems With Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice adding and subtracting like fractions.

Duration: 0 hr 10 min

Quiz: Adding and Subtracting Like Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Like Fractions in Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice adding and subtracting unlike fractions.

Duration: 0 hr 10 min

Quiz: Adding and Subtracting Unlike Fractions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Unlike Fractions in Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Adding Mixed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Subtracting Mixed Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Fractions and Whole Numbers

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice adding and subtracting decimals with two digits.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice adding and subtracting decimals with three digits.

Duration: 0 hr 10 min

Quiz: Adding and Subtracting Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 25 min 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 hr 40 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Decimals and Money

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Adding and Subtracting Decimals in Word Problems

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice estimating sums and differences with decimals.

Duration: 0 hr 10 min

Quiz: Estimating Sums and Differences with Decimals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min 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 hr 30 min

Test (CS): Operations with Fractions and Decimals

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

Duration: 0 hr 30 min 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 hr 30 min Scoring: 50 points

LESSON 15: DIAGNOSTIC

Diagnostic: Operations with Fractions and Decimals

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice working with points, segments, rays, and lines.

Duration: 0 hr 10 min

Quiz: Points, Segments, Rays, and Lines

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Identifying Parts of Angles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 10 points

LESSON 3: CLASSIFYING ANGLES

Study: Classifying Angles

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

Duration: 0 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice classifying angles.

Duration: 0 hr 10 min

Quiz: Classifying Angles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice measuring angles with a protractor.

Duration: 0 hr 10 min

Quiz: Measuring Angles with a Protractor

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice working with parallel, intersecting and perpendicular paths.

Duration: 0 hr 10 min

Quiz: Parallel, Intersecting, and Perpendicular Paths

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Open and Closed Figures

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 10 points

LESSON 7: IDENTIFYING POLYGONS

Study: Identifying Polygons

Learn the definitions of open and closed geometric figures.

Duration: 0 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Identifying Polygons

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice classifying triangles.

Duration: 0 hr 10 min

Quiz: Classifying Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards

Participate in a flash card activity to practice classifying quadrilaterals.

Duration: 0 hr 10 min

Quiz: Classifying Quadrilaterals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Identifying Parts of Circles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Lines of Symmetry

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Sliding, Turning, and Flipping Shapes

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Congruence and Similarity

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Using Geometric Vocabulary

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 16: 2-D GEOMETRY WRAP-UP

Review: 2-D Geometry

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): 2-D Geometry

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): 2-D Geometry

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 17: DIAGNOSTIC

Diagnostic: 2-D Geometry

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice finding perimeter.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice building perimeter.

Duration: 0 hr 10 min

Quiz: Perimeter

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Introduction to Area

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice finding the area of squares and rectangles.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice building the area of squares and rectangles.

Duration: 0 hr 10 min

Quiz: Area of Rectangles and Squares

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice finding the area of parallelograms.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice building the area of parallelograms.

Duration: 0 hr 10 min

Quiz: Area of Parallelograms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice finding the area of triangles.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice building the area of triangles.

Duration: 0 hr 10 min

Quiz: Area of Triangles

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 7: PERIMETER AND AREA WRAP-UP**Review: Perimeter and Area**

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): Perimeter and Area

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Perimeter and Area

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 8: DIAGNOSTIC**Diagnostic: Perimeter and Area**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 points

UNIT 10: 3-D GEOMETRY**LESSON 1: THREE DIMENSIONS****Study: Three Dimensions**

Learn about measuring three-dimensional figures.

Duration: 0 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Three Dimensions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Introduction to Volume

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Study: Flash Cards 1

Participate in a flash card activity to practice finding the volume of rectangular solids.

Duration: 0 hr 10 min

Study: Flash Cards 2

Participate in a flash card activity to practice building rectangular solids from a given volume.

Duration: 0 hr 10 min

Quiz: Volume of Rectangular Solids

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 10 points

LESSON 4: POLYHEDRA

Study: Polyhedra

Explore the geometric properties of polyhedra.

Duration: 0 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Polyhedra

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Surface Area

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Estimation and Units

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 8: 3-D GEOMETRY WRAP-UP

Review: 3-D Geometry

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): 3-D Geometry

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): 3-D Geometry

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 9: DIAGNOSTIC

Diagnostic: 3-D Geometry

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Types of Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkup: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Frequency Tables, Line Plots, and Bar Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Stem and Leaf Plots and Histograms

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Data Pairs and Double-Bar Graphs

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Checkpoint: Practice Problems

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

Duration: 0 hr 20 min

Quiz: Data Pairs and Scatter Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 25 min

Practice: Assignment

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

Duration: 0 hr 30 min Scoring: 30 points

LESSON 7: DATA ANALYSIS WRAP-UP

Review: Data Analysis

Review unit material in preparation for upcoming assessments.

Duration: 0 hr 30 min

Test (CS): Data Analysis

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

Duration: 0 hr 30 min Scoring: 60 points

Test (TS): Data Analysis

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

Duration: 0 hr 30 min Scoring: 50 points

LESSON 8: DIAGNOSTIC**Diagnostic: Data Analysis**

Take a diagnostic unit test that will generate a study plan based on your responses.

Duration: 0 hr 30 min Scoring: 30 points