

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Through a "Discovery-Confirmation-Practice"-based exploration of each concept, students are challenged to work toward a mastery of computational skills, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications.

Course topics include types of data; common methods used to collect data; and the various representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of prediction, specifically involving samples and populations, distributions, summary statistics, regression analysis, transformations, simulations, and inference.

Ideas involving probability — including sample space, empirical and theoretical probability, expected value, and independent and compound events — are covered as students explore the relationship between probability and data analysis. The basic connection between geometry and probability is also explored.

To assist students for whom language presents a barrier to learning or who are not reading at grade level, Probability and Statistics includes audio resources in English.

The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

Length: One semester

## UNIT 1: COLLECTING DATA

### LESSON 1: WHAT IS STATISTICS?

#### **Study: What Is Statistics?**

Learn reasons for studying statistics, how statistics is used, and the differences between sample data and population parameters.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: What Is Statistics?**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### LESSON 2: OBSERVATIONAL STUDIES

#### **Study: Observational Studies**

Learn about different sampling methods, biases in sampling, and how sampling methods and biases can affect conclusions drawn from studies.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: Observational Studies**

Take a quiz to assess your understanding of the material.

### LESSON 3: EXPERIMENTAL DESIGN

#### Study: Experimental Design

Learn about experimental design, including but not limited to treatments, randomization, techniques to address extraneous factors, and appropriate conclusions.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Experimental Design

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

#### Discuss: Applying Experimental Design Concepts to Real-World Studies

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

### LESSON 4: CATEGORICAL DATA

#### Study: Categorical Data

Learn how to construct and interpret bar charts, pie graphs, and comparative bar charts.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Categorical Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### LESSON 5: COLLECTING DATA WRAP-UP

#### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

#### Review: Collecting Data

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

#### Test (CS): Collecting Data

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

Duration: 0 hrs 40 mins Scoring: 50 points

#### Test (TS): Collecting Data

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

Duration: 0 hrs 30 mins Scoring: 50 points

### LESSON 6: DIAGNOSTIC

#### Diagnostic: Collecting Data

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

Duration: 0 hrs 40 mins Scoring: 25 points

## UNIT 2: NUMERICAL DATA SETS

### LESSON 1: NUMERICAL DATA

#### Study: Numerical Data

Learn how to construct and interpret stem-and-leaf plots, histograms, and dot plots along with comparative stem-and-leaf and dot plots.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Numerical Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### LESSON 2: MEASURES OF CENTER

#### Study: Measures of Center

Learn how to calculate and interpret measures of center, such as mean, median, and mode.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Measures of Center

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### LESSON 3: MEASURES OF SPREAD

#### Study: Measures of Spread

Learn how to calculate and interpret variance, standard deviation, range, interquartile range, and outliers.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Measures of Spread

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### LESSON 4: BOX PLOTS

#### Study: Box Plots

Learn how to calculate and interpret box plots, comparative box plots, and modified box plots.

Duration: 0 hrs 40 mins Scoring: 0 points

#### Checkpoint: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### Quiz: Box Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## LESSON 5: DESCRIBING DISTRIBUTIONS

### Study: Describing Distributions

Learn how to describe distributions using measures of center, shape, and spread for single and comparative data sets.

Duration: 0 hrs 40 mins Scoring: 0 points

### Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### Quiz: Describing Distributions

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### Discuss: Displaying and Describing Real-World Data

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

## LESSON 6: TRANSFORMING UNIVARIATE DATA

### Study: Transforming Univariate Data

Learn how to calculate the effects of transformations on the center, shape, and spread.

Duration: 0 hrs 40 mins Scoring: 0 points

### Checkup: Practice Problems

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### Quiz: Transforming Univariate Data

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## LESSON 7: NUMERICAL DATA SETS WRAP-UP

### Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### Review: Numerical Data Sets

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

### Test (CS): Numerical Data Sets

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

Duration: 0 hrs 40 mins Scoring: 50 points

### Test (TS): Numerical Data Sets

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

Duration: 0 hrs 30 mins Scoring: 50 points

## LESSON 8: DIAGNOSTIC

### Diagnostic: Numerical Data Sets

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

Duration: 0 hrs 40 mins Scoring: 25 points

## UNIT 3: BIVARIATE DATA

### LESSON 1: SCATTERPLOTS

**Study: Scatterplots**

Learn how to construct and interpret scatterplots.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Scatterplots**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 2: CORRELATION COEFFICIENTS****Study: Correlation Coefficients**

Learn how to calculate and interpret Pearson's sample correlation coefficient.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Correlation Coefficients**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 3: LINEAR REGRESSION****Study: Linear Regression**

Learn how to calculate a linear regression equation, interpret the slope and intercept in context, and identify influential points (compared to large residuals).

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Linear Regression**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 4: ASSESSING LINEAR REGRESSION****Study: Assessing Linear Regression**

Learn how to interpret correlation coefficients ( $r$ -values), coefficients of determination ( $r^2$ -values), and residual plots.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Assessing Linear Regression**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 5: TRANSFORMING BIVARIATE DATA****Study: Transforming Bivariate Data**

Learn how to transform data so that a linear regression equation can be used to model nonlinear relationships.

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Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Transforming Bivariate Data**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **Discuss: Transforming Real-World Bivariate Data**

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

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

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### **Review: Bivariate Data**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Bivariate Data**

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

Duration: 0 hrs 40 mins Scoring: 50 points

### **Test (TS): Bivariate Data**

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **LESSON 7: DIAGNOSTIC**

### **Diagnostic: Bivariate Data**

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

Duration: 0 hrs 40 mins Scoring: 25 points

## **UNIT 4: PROBABILITY**

### **LESSON 1: RANDOM OUTCOMES, SAMPLE SPACE, AND EVENTS**

#### **Study: Random Outcomes, Sample Space, and Events**

Learn how to anticipate all possible outcomes of a chance experiment and list specific outcomes associated with defined events.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: Random Outcomes, Sample Space, and Events**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **LESSON 2: GENERAL PROBABILITY RULES**

#### **Study: General Probability Rules**

Learn how to apply the general addition and complement rules for two events, and learn to use and read Venn diagrams when

solving probability problems.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkpoint: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: General Probability Rules**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 3: CONDITIONAL PROBABILITY**

### **Study: Conditional Probability**

Learn how to identify and solve conditional probability problems using correct notation, formulas, and tables.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkpoint: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Conditional Probability**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 4: INDEPENDENCE**

### **Study: Independence**

Learn how to show if two events are independent, and solve probability problems for both independent and dependent events using the multiplication rule and tree diagrams.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkpoint: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Independence**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 5: BAYES'S THEOREM**

### **Study: Bayes's Theorem**

Learn how to identify and solve probability problems using Bayes's theorem.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkpoint: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Bayes's Theorem**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 6: SIMULATIONS**

### **Study: Simulations**

Learn how to simulate a random event using random number generators and rows of random digits and use results to estimate probabilities empirically.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Simulations**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **Discuss: Using Simulations to Explore Real-World Concerns**

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

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

### **Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### **Review: Probability**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Probability**

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

Duration: 0 hrs 40 mins Scoring: 50 points

### **Test (TS): Probability**

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **LESSON 8: DIAGNOSTIC**

### **Diagnostic: Probability**

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

Duration: 0 hrs 40 mins Scoring: 25 points

## **UNIT 5: PROBABILITY DISTRIBUTIONS**

### **LESSON 1: DISCRETE RANDOM VARIABLES**

#### **Study: Discrete Random Variables**

Learn how to identify a discrete random variable and calculate its probability distribution, mean, and standard deviation.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: Discrete Random Variables**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **LESSON 2: CONTINUOUS RANDOM VARIABLES**

#### **Study: Continuous Random Variables**

Learn how to identify a continuous random variable and calculate its probability distribution.

Duration: 0 hrs 40 mins Scoring: 0 points



**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Continuous Random Variables**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 3: BINOMIAL PROBABILITY DISTRIBUTIONS****Study: Binomial Probability Distributions**

Learn how to calculate binomial probability distributions, including mean and standard deviation.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Binomial Probability Distributions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 4: GEOMETRIC PROBABILITY DISTRIBUTIONS****Study: Geometric Probability Distributions**

Learn how to identify and calculate geometric probability distributions.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Geometric Probability Distributions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 5: NORMAL DISTRIBUTIONS****Study: Normal Distributions**

Learn how to identify properties of a normal distribution and then apply these properties to determine probabilities with a table or graphing calculator.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Normal Distributions**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**Discuss: Checking for Normal Probability Distributions**

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

**LESSON 6: PROBABILITY DISTRIBUTIONS WRAP-UP****Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

### **Review: Probability Distributions**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

### **Test (CS): Probability Distributions**

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

Duration: 0 hrs 40 mins Scoring: 50 points

### **Test (TS): Probability Distributions**

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

Duration: 0 hrs 30 mins Scoring: 50 points

## **LESSON 7: DIAGNOSTIC**

### **Diagnostic: Probability Distributions**

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

Duration: 0 hrs 40 mins Scoring: 25 points

## **UNIT 6: SAMPLE DISTRIBUTIONS AND CONFIDENCE INTERVALS**

### **LESSON 1: POINT ESTIMATES**

#### **Study: Point Estimates**

Learn how to calculate point estimates from a single sample mean and a single sample proportion.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: Point Estimates**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **LESSON 2: SINGLE SAMPLE MEAN**

#### **Study: Single Sample Mean**

Learn how to understand and apply the concepts and parameters of the central limit theorem to single sample mean distributions.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

#### **Quiz: Single Sample Mean**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **LESSON 3: SINGLE SAMPLE PROPORTION**

#### **Study: Single Sample Proportion**

Learn how to understand and apply the concepts and parameters of the central limit theorem to single sample proportion distributions.

Duration: 0 hrs 40 mins Scoring: 0 points

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

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Single Sample Proportion**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 4: SINGLE SAMPLE MEANS AND CONFIDENCE INTERVALS**

### **Study: Single Sample Means and Confidence Intervals**

Learn how to use large sample data to calculate and interpret a confidence interval for a population mean.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Single Sample Means and Confidence Intervals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 5: SINGLE SAMPLE PROPORTIONS AND CONFIDENCE INTERVALS**

### **Study: Single Sample Proportions and Confidence Intervals**

Learn how to use large sample data to calculate and interpret a confidence interval for a population proportion.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Single Sample Proportions and Confidence Intervals**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

## **LESSON 6: EVALUATING PUBLISHED REPORTS**

### **Study: Evaluating Published Reports**

Learn how to evaluate the design of a study, the appropriateness of its analysis, and the validity of its conclusions.

Duration: 0 hrs 40 mins Scoring: 0 points

### **Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

### **Quiz: Evaluating Published Reports**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

### **Discuss: Analyzing Real-World Reports**

Join a three- to five-question discussion to practice methods learned in this unit.

Duration: 0 hrs 20 mins Scoring: 30 points

## **LESSON 7: APPLICATIONS OF STATISTICAL TECHNIQUES**

### **Study: Applications of Statistical Techniques**

Learn how statistical techniques are used to analyze real-world observational studies and experimental designs.

Duration: 0 hrs 40 mins Scoring: 0 points

**Checkup: Practice Problems**

Complete a set of practice problems to check your understanding of the lesson.

Duration: 0 hrs 25 mins Scoring: 0 points

**Quiz: Applications of Statistical Techniques**

Take a quiz to assess your understanding of the material.

Duration: 0 hrs 20 mins Scoring: 20 points

**LESSON 8: SAMPLE DISTRIBUTIONS AND CONFIDENCE INTERVALS WRAP-UP****Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hrs 40 mins Scoring: 100 points

**Review: Sample Distributions and Confidence Intervals**

Prepare for the unit test by reviewing key concepts and skills.

Duration: 0 hrs 30 mins Scoring: 0 points

**Test (CS): Sample Distributions and Confidence Intervals**

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

Duration: 0 hrs 40 mins Scoring: 50 points

**Test (TS): Sample Distributions and Confidence Intervals**

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

Duration: 0 hrs 30 mins Scoring: 50 points

**LESSON 9: DIAGNOSTIC****Diagnostic: Sample Distributions and Confidence Intervals**

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

Duration: 0 hrs 40 mins Scoring: 25 points

**UNIT 7: PROBABILITY AND STATISTICS REVIEW AND EXAM****LESSON 1: PROBABILITY AND STATISTICS****Review: Probability and Statistics**

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

Duration: 1 hr Scoring: 0 points

**Exam: Probability and Statistics**

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

Duration: 0 hrs 50 mins Scoring: 200 points