

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: What Is Statistics?

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Observational Studies

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring:

20 points

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Experimental Design

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Categorical Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20

points

LESSON 5: COLLECTING DATA WRAP-UP**Practice: Assignment**

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Collecting Data

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

Duration: 0 hr 30 min Scoring: 0

points

Test (CS): Collecting Data

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

Duration: 0 hr 40

min Scoring: 50 points

Test (TS): Collecting Data

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

Duration: 0 hr 30

min 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 hr 40 min Scoring: 25 points

UNIT 2: NUMERICAL DATA SETS

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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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Numerical Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Measures of Center

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Measures of Spread

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Box Plots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Describing Distributions

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Transforming Univariate Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

Scoring: 20 points

LESSON 7: NUMERICAL DATA SETS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Numerical Data Sets

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

Duration: 0 hr 30 min

Scoring: 0 points

Test (CS): Numerical Data Sets

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

Duration: 0

hr 40 min Scoring: 50 points

Test (TS): Numerical Data Sets

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: Numerical Data Sets

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

Duration: 0 hr 40 min Scoring: 25 points

UNIT 3: BIVARIATE DATA

LESSON 1: SCATTERPLOTS

Study: Scatterplots

Learn how to construct and interpret scatterplots.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Scatterplots

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min Scoring: 20 points

LESSON 2: CORRELATION COEFFICIENTS

Study: Correlation Coefficients

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

Duration:

0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Correlation Coefficients

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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).

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Duration: 0 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Linear Regression

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Assessing Linear Regression

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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.

Duration: 0 hr 40 min Scoring: 0 points

Checkpoint: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Transforming Bivariate Data

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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 hr 20 min Scoring: 30 points

LESSON 6: BIVARIATE DATA WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Bivariate Data

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

Duration: 0 hr 30 min Scoring: 0 points

Test (CS): Bivariate Data

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

Duration: 0 hr 40 min Scoring: 50 points

Test (TS): Bivariate Data

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

Duration: 0 hr 30 min 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 hr 40 min 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

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experiment and list specific outcomes associated with defined events.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Random Outcomes, Sample Space, and Events

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: General Probability Rules

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Conditional Probability

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Independence

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40

min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Bayes's Theorem

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

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Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Simulations

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 20 min Scoring: 30 points

LESSON 7: PROBABILITY WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Probability

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

Duration: 0 hr 30 min Scoring: 0

points

Test (CS): Probability

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

Duration: 0 hr 40 min

Scoring: 50 points

Test (TS): Probability

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: Probability

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

Duration: 0

hr 40 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Discrete Random Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Continuous Random Variables

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Binomial Probability Distributions

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 20
min Scoring: 20 points*

LESSON 4: GEOMETRIC PROBABILITY DISTRIBUTIONS

Study: Geometric Probability Distributions

Learn how to identify and calculate geometric probability distributions.

Duration: 0 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Geometric Probability Distributions

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 20
min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Normal Distributions

Take a quiz to assess your understanding of the material.

*Duration: 0 hr 20 min 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 hr 20 min Scoring: 30 points

LESSON 6: PROBABILITY DISTRIBUTIONS WRAP-UP

Practice: Assignment

Submit your work for a set of 20 practice problems.

Duration: 0 hr 40 min Scoring: 100 points

Review: Probability Distributions

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

Duration: 0 hr 30 min

Scoring: 0 points

Test (CS): Probability Distributions

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

Duration: 0 hr 40 min Scoring: 50 points

Test (TS): Probability Distributions

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

Duration: 0

hr 30 min 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 hr 40 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Point Estimates

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Single Sample Mean

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Single Sample Proportion

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min

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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Single Sample Means and Confidence Intervals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:

0 hr 25 min Scoring: 0 points

Quiz: Single Sample Proportions and Confidence Intervals

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

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Duration:
0 hr 25 min Scoring: 0 points

Quiz: Evaluating Published Reports

Take a quiz to assess your understanding of the material.

Duration: 0 hr 20 min
Scoring: 20 points

Discuss: Analyzing Real-World Reports

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

Duration: 0 hr 20 min 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 hr 40 min Scoring: 0 points

Checkup: Practice Problems

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

Duration:
0 hr 25 min Scoring: 0 points

Quiz: Applications of Statistical Techniques

Take a quiz to assess your understanding of the material.

Duration: 0 hr
20 min 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 hr 40 min Scoring: 100 points

Review: Sample Distributions and Confidence Intervals

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

Duration: 0 hr 30 min 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 hr 40 min 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 hr 30 min 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 hr 40 min 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 hr 50 min Scoring: 200 points