

Place a checkmark or the date when items are completed. For tests, record the score if preferred.

Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
45 Data Distributions						
46 Standard Normal Distributions						
47 Introduction to Statistics						
48 Sampling Methods and Bias						
49 Error and Confidence						
50 Experiments and Probability						

Lesson Objectives

Check each objective that the student has mastered.

Lesson 45

- Describe a data distribution.
- Calculate standard deviation (for a population).
- Analyze normal distributions with the Empirical Rule.

Lesson 46

- Calculate z -scores.
- Estimate area with a z -table.
- Estimate population percentages.
- Evaluate reports based on data.

Lesson 47

- Identify a population and a sample in a scenario.
- Identify and categorize statistical variables.
- Name and/or explain the type of study being conducted.

Lesson 48

- Determine the type of probability sampling method being used.
- Identify the purpose of a study.
- Describe the bias or misuse of statistics.
- Write an unbiased statistical question.

Lesson 49

- Infer a population mean from confidence intervals.
- Calculate the margin of error of a sample.
- Evaluate reports.

Lesson 50

- Compare two treatments in an experiment to decide if the differences are significant.
- Analyze decisions using inferential statistics.

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Lesson	Explore	Practice 1	Mastery Check	Practice 2	Targeted Review	Lesson Test
51 Permutations and Combinations						
52 Binomial Counting Principles						
53 Theoretical and Experimental Probability						
54 Compound Probability						
55 Probability of Independent Events						
56 Probability of Dependent Events						

Unit 6 Test

Date:

Score:

Final

Date:

Score:

Lesson Objectives

Check each objective that the student has mastered.

Lesson 51

- Apply the Fundamental Counting Principle.
- Solve problems involving permutations and/or combinations.

Lesson 52

- Apply Pascal’s Triangle to problems.
- Know and apply the Binomial Theorem to binomial expressions.

Lesson 53

- Calculate theoretical probability.
- Calculate experimental probability.
- Analyze probabilities to make fair decisions.

Lesson 54

- Calculate the probability of mutually exclusive events.
- Calculate the probability of inclusive events.
- Analyze a two-way table or Venn diagram.
- Construct a two-way table or Venn diagram.

Lesson 55

- Calculate the probability of an independent event.
- Calculate binomial probability.
- Determine if events are independent or dependent, and explain your thinking.

Lesson 56

- Calculate the probability of a dependent event.
- Calculate conditional probabilities.
- Explain if events are independent or dependent.