

Learning Targets

One-variable Statistics

Lesson 1: Getting to Know You

- I can tell statistical questions from non-statistical questions and can explain the difference.
- I can tell the difference between numerical and categorical data.

Lesson 2: Data Representations

- I can find the five-number summary for data.
- I can use a dot plot, histogram, or box plot to represent data.

Lesson 3: A Gallery of Data

• I can graphically represent the data I collected and critique the representations of others.

Lesson 4: The Shape of Distributions

- I can describe the shape of a distribution using the terms "symmetric, skewed, uniform, bimodal, and bell-shaped."
- I can use a graphical representation of data to suggest a situation that produced the data pictured.

Lesson 5: Calculating Measures of Center and Variability

• I can calculate mean absolute deviation, interquartile range, mean, and median for a set of data.

Lesson 6: Mystery Computations

• I can determine basic relationships between cell values in a spreadsheet by changing the values and noticing what happens in another cell.

Lesson 7: Spreadsheet Computations

• I can use a spreadsheet as a calculator to find solutions to word problems.

Lesson 8: Spreadsheet Shortcuts

• I can use shortcuts to fill in cells on a spreadsheet.



Lesson 9: Technological Graphing

• I can create graphic representations of data and calculate statistics using technology.

Lesson 10: The Effect of Extremes

- I can describe how an extreme value will affect the mean and median.
- I can use the shape of a distribution to compare the mean and median.

Lesson 11: Comparing and Contrasting Data Distributions

• I can arrange data sets in order of variability given graphic representations.

Lesson 12: Standard Deviation

- I can describe standard deviation as a measure of variability.
- I can use technology to compute standard deviation.

Lesson 13: More Standard Deviation

• I can use standard deviation to say something about a situation.

Lesson 14: Outliers

- I can find values that are outliers, investigate their source, and figure out what to do with them.
- I can tell how an outlier will impact mean, median, IQR, or standard deviation.

Lesson 15: Comparing Data Sets

• I can compare and contrast situations using measures of center and measures of variability.

Lesson 16: Analyzing Data

• I can collect data from an experiment and compare the results using measures of center and measures of variability.