

**Enduring  
Understandings**

The analysis and interpretation of data depends on the type of display.

Graphical representations and statistical measures can be used to make interpretations and predictions about real world situations.

**Essential Questions**

What is the purpose of data displays and statistical measures?

How can the data representation influence conclusions?

**Indicators**

- 4.7.2.1 organize and display data, with or without technology, using a variety of displays, including box and whisker plots, back-to-back stem and leaf plots, and scatter plots.
- 4.7.2.3 use box and whisker plots to compare two sets of data.
- 4.7.3.1 analyze and interpret data in a variety of displays, box and whisker plots, back-to-back stem and leaf plots, and scatter plots.
- 4.7.4.1 use the measures of central tendency (mean, median, mode) to compare two sets of data.
- 4.7.5.1 evaluate the validity of claims based on analysis of data.
- 4.7.5.2 identify data that represent sampling errors and explain why a sample might be biased.