

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.