Enduring Understanding	**Essential Questions**
Choices in data collection and representation affect their interpretation and use.	What is the purpose of displaying data? How does the selection of a sample affect conclusions based on the sample? How can the data representation influence conclusions? How does the selection of a sample affect conclusions based on the sample? Which measure of central tendency is most appropriate in a given situation?

Indicators

4.6.1.2 conduct and use the results of a simple statistical investigation to answer a question.

4.6.1.1 identify and compare different ways of selecting a sample.

4.6.2.1 interpret, organize, and display data, with and without technology, using various formats, including frequency tables and circle graphs.

4.6.5.1 recognize and identify the misuses of statistical and numerical data.

4.6.5.3 analyze the effect a change of scale will have on graphs.

4.6.3.1 analyze and interpret data using various formats, including frequency tables.

4.6.4.1 select and justify mean, median, or mode of a data set as the best representation of data.

4.6.5.2 analyze why the way in which data is displayed might influence the conclusion reached.

4.6.1.3 construct convincing arguments to support conclusions based on analysis of data and interpretation of graphs.