PsychSim 5: DESCRIPTIVE STATISTICS

Name: _____   **Section:** _____

Date: _____

This activity introduces you to the basic statistics that researchers use to summarize their sets of data.

The numbers below represent the scores of a group of students on a math test. Use them to perform the required calculations.

10, 13, 10, 12, 11, 7, 12, 11, 6, 11, 12, 11, 8, 10, 9

Distribution of Scores
- Sort the scores; that is, arrange them in order from lowest to highest.

- Create a frequency histogram.

Measures of Central Tendency
- What is a mode?

- What is the mode of your distribution? _____

- What is a median?

- What is the median of your distribution? _____

Measures of Central Tendency *(continued)*

- What is a mean?

- How is a mean calculated?

- What is the mean of your distribution? _____ Show your calculations.

Skewed Distributions

- Which measure of central tendency would be the best "average" to describe a skewed distribution? Why?

Measures of Variability

- How is a range calculated?

- What is the range of your distribution? _____

- What is standard deviation?

- How is standard deviation calculated?