

**Data and Chance notes**  
**Chapter 12**

Below are terms from the readings. Write definitions and examples in the spaces provided. Answer the questions where indicated.

**Chapter 12: Describing distributions with numbers**

Suppose you have a set of ten numbers. How do you find the **mean**? (Remember mean is just another name for average.)

This chapter talks about the **center and spread** of a set of numbers. Mean and median describe which, center or spread? Standard deviation and quartiles measure which, center or spread?

**Standard deviation** tells us what about a set of numbers?

What is meant by a **median** of a set of numbers? What is meant by **quartiles**?

What five numbers compose the “**Five number summary**”?

Draw an example of a **boxplot**.

Which is affected more by outliers, mean or median? Which is affected more by outliers, standard deviation or quartiles?