

Daily Agenda

Learning Targets: I can describe the center, spread, and shape from a visual representation of data. I can identify the difference between population and sample. I can define standard deviation. I can find the standard deviation.

Homework

10.6 WS - use sample for all

Assessments

10.5 and 10.6 Quiz - 5/15
Unit 10 B Test - 5/23

Be more concerned with your character than your reputation, because your character is what you really are, while your reputation is merely what others think you are. -John Wooden

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10.6 Patterns and Standard Deviation

Patterns in Data

Described in terms of *center*, *spread*, *shape*, and *unusual features*. These attributes should only be used to describe **quantitative data** (*numerical data*) not **qualitative data** (*categorical data*).

Center

Located at the **median** of the distribution. This is the point in a graphic display where about half of the observations are on either side.

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Spread

The variability of the data. If the observations cover a wide **range**, the spread is larger. If the observations are clustered around a single value, the spread is smaller.

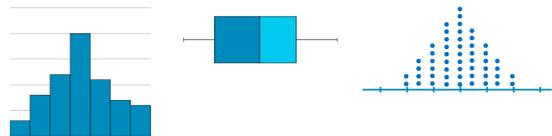


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Shape

Symmetry

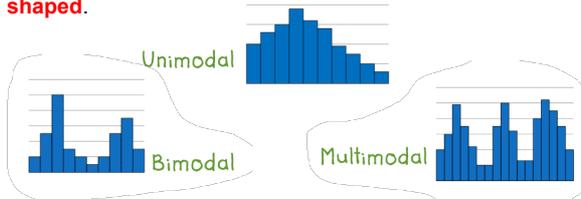
Distribution divided at the center so that each half is a mirror image of the other.



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Number of Peaks

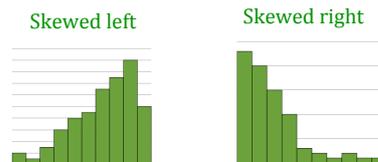
Distributions can have few or many peaks (unimodal, bimodal, multimodal). When a symmetric distribution has a single peak at the center, it is referred to as **bell-shaped**.



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Skewness

Some distributions have many more observations on one side than the other. Distributions with fewer observations on the right are **skewed right**. Distributions with fewer observations on the left are said to be **skewed left**.



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Uniform

When the observations in a set of data are equally spread across the range of the distribution. A uniform distribution has no clear peaks.



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Unusual Features

Gap

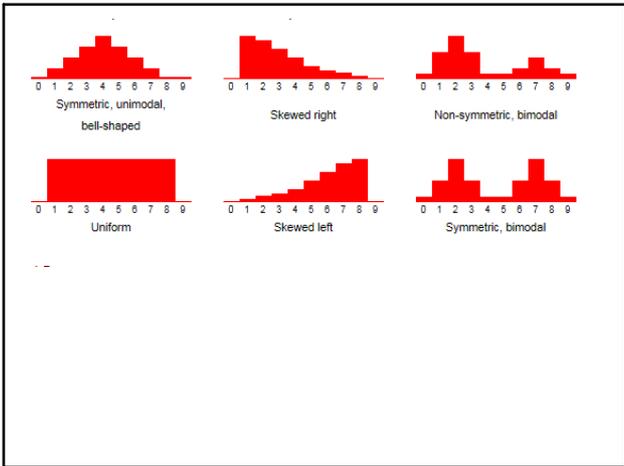
Area of a distribution where there are no observations.

Outlier

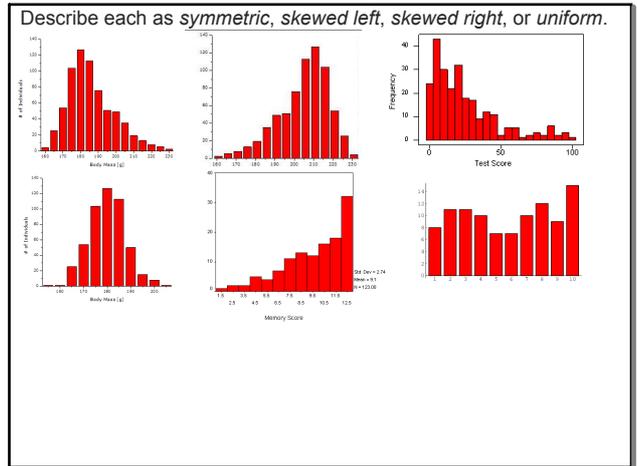
Extreme value that differs greatly from other observations.



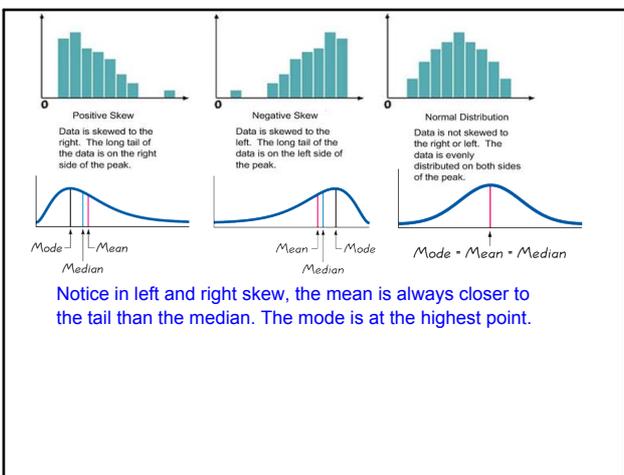
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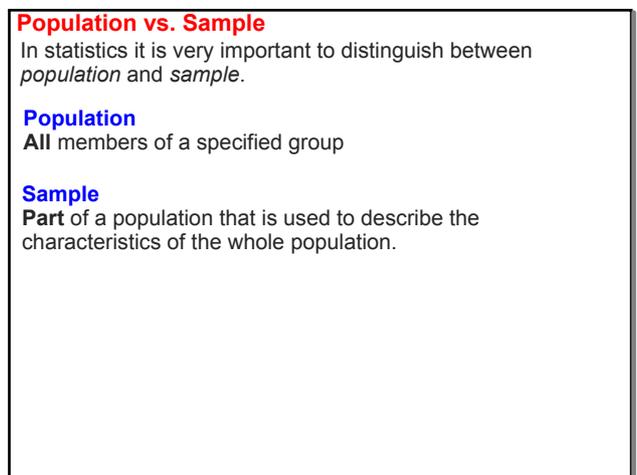
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Apr 15-8:56 PM

