

Statistics: The study of data

Where is the center?

Measures of
Central Tendency

Mean
average

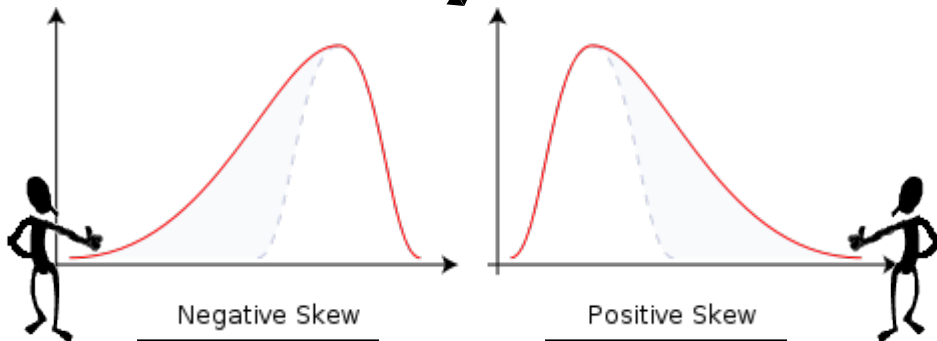
- when there is a big outlier the mean becomes useless

Median

middle number

- when there is a big outlier, use the median instead of the mean

Mode
number that occurs most often



Negative Skew

Mean is below median

Positive Skew

Mean is above median

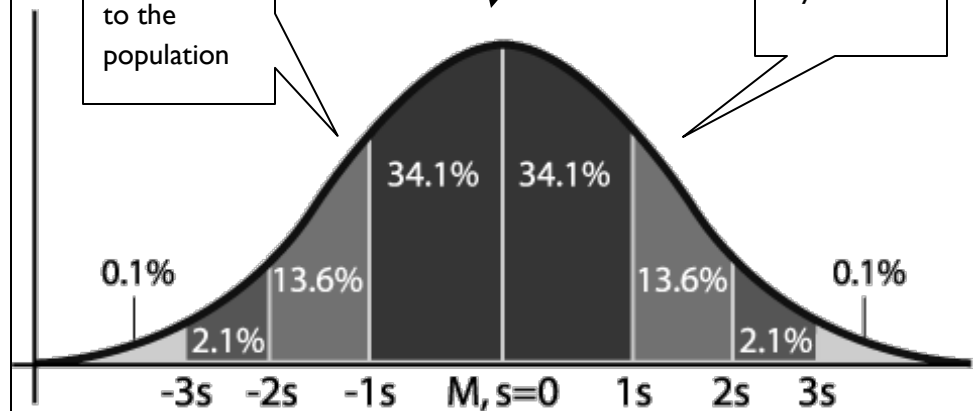
How much do things vary around the center?

Measures of
Variation

Things that are naturally occurring (happen by chance) most often form a normal distribution

Allows us to compare individuals to the population

You'll see this a lot in Psych



Range – subtract the lowest value from the highest value

Standard Deviation – shows how much scores varied around the mean. Higher the standard deviation the more scores varied.