

Some Statistics Vocabulary:

Measures of Central Tendency (the 3 M's):

- Mean
- Median Gives an indication of where the "middle" of the data is.
- Mode

Box-and-Whisker Plot:

- Quartiles
- Extremes
- Median
- Upper 25%
- Lower 25%
- Middle 50%
- Outlier
- Percentiles

Measures of Variability:

- Range
- Interquartile range
- Standard Deviation
- Z-score

Gives an indication of how spread out the data is, or how much variation there is in the data.

- Sample
- Sample Proportion
- Margin of Error

- Normal Distributions
- Standard Normal Curve

Section 12-3: Analyzing Data

Measures of Central Tendency:

- Mean  $\frac{\text{Sum of data}}{\text{\# of data items}}$  Symbol for Mean:  $\bar{x}$  "x bar"
- Median The middle # or the mean of the middle two #'s (#'s must be in order!)
- Mode The # or #'s that occur the most often

Find the mean, median, and mode for each set of data

- Set 1: 16, 23, 30, 18, 19, 85, 23, 17, 9, 14
- Mean: 25.4
- Median: 18.5
- Mode: 23
- Set 2: 103, 111, 109, 99, 123, 114, 103, 107, 99
- Mean: 107.6
- Median: 107
- Mode: 99, 103