Measures of Center

Measures of Center: tells how the data values are clustered

Mean (Average) _Median_ _Mode_

Mean: the arithmetic _average_ of the numbers in a data set
- _Add_ all the values in the data set and then _divide_ the sum by the number of data values

Median: the _middle_ number in a data set when the values are placed in _numerical_ order
- If there are _two_ middle values, find the _mean_ of those two values

Mode: data value(s) that occur most _frequently_ in a data set
- There can be:
  - No mode
  - One mode
  - Multiple modes

$$12 \quad 12 \quad 6 \quad 26 \quad 4 \quad 12$$

Mean: $\dfrac{12+12+6+26+4+12}{6} = \dfrac{72}{6} = 12$

Median: $4 \quad 6 \quad 12 \mid 12 \quad 12 \quad 26 \quad = 12$

Mode: 12

200   150   260   180   300   240   280

Mean: $\dfrac{200 + 150 + 260 + 180 + 300 + 240 + 280}{7} = \dfrac{1610}{7} = 230$

Median: 150   180   200   (240)   260   280   300   = 240

Mode: No mode