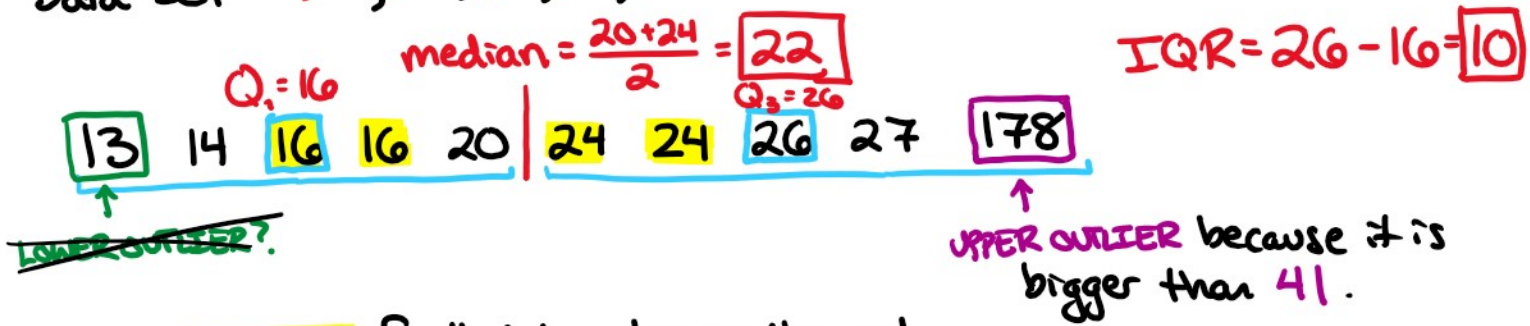


Data Set: ~~24~~, ~~27~~, ~~16~~, ~~14~~, ~~20~~, ~~24~~, ~~178~~, ~~13~~, ~~16~~, ~~26~~



Mean - average of all data values in the set

$$\bar{X} = \frac{\text{add up all values}}{\text{\# of values}}$$

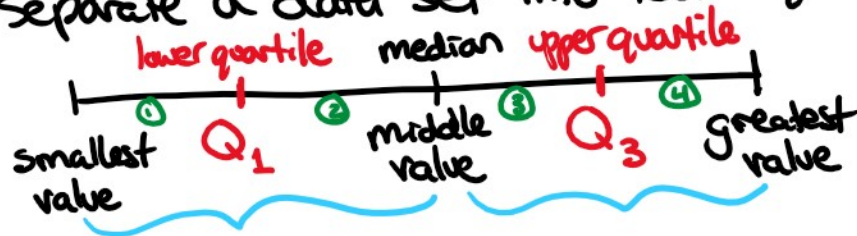
$$\bar{X} = \frac{13+14+16+16+20+24+24+26+27+178}{10} = 35.8$$

median - middle value or the average of the two middle values

mode - the data values that occur most frequently

$\boxed{16 \text{ and } 24}$

quartiles - separate a data set into four equal parts



inter-quartile range (IQR) - range of values from lower quartile to upper quartile

$$IQR = Q_3 - Q_1$$

outlier - a value in a data set that is significantly different than the other data values

LOWER OUTLIERS

$$Q_1 - 1.5 \cdot IQR$$

$$16 - 1.5 \cdot 10$$

UPPER OUTLIERS

$$Q_3 + 1.5 \cdot IQR$$

$$26 + 1.5 \cdot 10$$

