

more  
less or not other

SUPER

How far points from another

## 2) SPread

"Q" is JS median

Five Number Summary [Min, Max, Q<sub>1</sub>, Q<sub>2</sub>, Q<sub>3</sub>]

- Standard Deviation :- Mean is used to find  
Mean is the center of data around mean

- Variance :-

\* Most Common Way To Measure Spread

$$\text{Sample : } s^2 = \frac{1}{n-1} \sum_{i=1}^{n-1} (x_i - \bar{x})^2$$

$$\text{Population : } \sigma^2 = \frac{1}{N} \sum_{i=1}^{N} (x_i - \mu)^2$$

$$SD = \sqrt{s^2}, \quad \sigma = \sqrt{\sigma^2}$$

$$\text{Range} = \text{Max} - \text{Min}$$

$$\text{IQ Range} = Q_3 - Q_1$$

## 3) Shape

1. SYMMETRIC :- Mean = Median = Mode

2. Right Skewed :- Mean > Median

3. Left Skewed :- Median > Mean

- Range = Max - Min
- IQR Range =  $Q_3 - Q_1$
- 

### 3) Shape

and, It's i 3 co, ab p will be 150

1. SYMMETRIC :- Mean = Median = Mode ' $L = R$ '
2. Right Skewed :- Mean > median ' $L < R$ '
3. Left Skewed :- Median > mean ' $L > R$ '

### 4) Outliers :- Far point from the values of dataset

\* Remove this point



