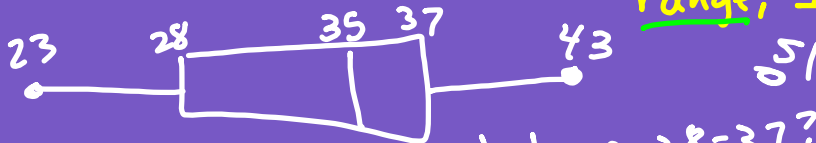


STATISTICS REVIEW

no cross off
only 1 IQR

List 3 meas. of central tend. - mean, median, mode
 " " " " variation - standard dev. ← preferred
range, IQR



What % of data between 28-37? 50%

What is IQR = $37 - 28 = 9$

Match 5 sampling methods.

Convenience, Random, Systematic every 5th, Stratified, Cluster

Small amt from ea. group
 everyone in group

STUDY YOUR JOURNAL.

Calculator - Find stats using 1-Var Stats.
Build a histogram or box plot.

↑
Bin settings: Bin width: 12
Alignment: 100 ←

Bins of 12 wide
Scale from 100 - 700

Work by hand

5	\$100
3	\$75
8	\$40
10	\$20
26	

Mean

$$5 \cdot 100 + 3 \cdot 75 + (8 \cdot 40) + (10 \cdot 20)$$

$$= \frac{\text{total \$}}{26}$$

$$\text{Median} = \frac{26}{2} = 13^{\text{th}} + 14^{\text{th}}$$

$$= \$40$$

#5 $IQR = Q_3 - Q_1$

1) $IQR * 1.5 = \#$

2) Lower boundary: $Q_1 - \#$

3) Upper boundary: $Q_3 + \#$

Standard Deviation by hand:

$$\{3, 10, 12, 23\}$$

1) $\mu = \frac{48}{4} = 12$

2) Data-Mean

$$3-12 \quad 10-12 \quad 12-12 \quad 23-12$$

$$(-9)^2 + (-2)^2 + (0)^2 + (11)^2$$

$$81 + 4 + 0 + 121 = \frac{206}{4} = \sqrt{51.5}$$

$$= 7.18$$

6-8 Concept Questions! Practice them!

9-14 - Normal Distribution!

$$Z = \frac{X - \mu}{\sigma} = \frac{\text{Raw Score} - \text{Mean}}{\text{St. Dev.}}$$