

ملخص القوانين لمادة البيوستات ميد...

* Mid exam :-

$$* \bar{X} = \frac{\sum X}{N} \quad (\text{Mean})$$

$$* W\text{-mean} = \frac{w_1 \bar{X}_1 + w_2 \bar{X}_2 + w_3 \bar{X}_3 \dots}{w_1 + w_2 + w_3 \dots}$$

$$* \text{Median position} = \frac{n+1}{2}$$

$$* \text{Range} \Rightarrow (\text{from} - \text{to}) \Rightarrow (\text{to} - \text{from})$$

هون بتقدر تطلع قيمة الـ range
طرح

$$* \text{percentile value} = \frac{P}{100} * (n+1) \text{th position.}$$

$$* S^2 = \frac{\sum (X - \bar{X})^2}{n-1} \quad (\text{Variance})$$

degree of freedom ←

$$* \pm S.D = \sqrt{\frac{\sum (X - \bar{X})^2}{n-1}}$$

فرام هبّا

$$* \pm 1 S.D \Rightarrow 68\%$$

$$* \pm 2 S.D \Rightarrow 95\%$$

$$* \pm 3 S.D \Rightarrow 99\%$$

} ⇒ within

$$* \pm 1 S.D \Rightarrow 32\%$$

$$* \pm 2 S.D \Rightarrow 5\%$$

$$* \pm 3 S.D \Rightarrow 1\%$$

} ⇒ more than S.D

$$* S.E = \frac{S.D}{\sqrt{n}}$$

$$* \text{Population mean } (\mu) = \bar{x} \pm 2 S.E \\ = \bar{x} \pm 1.96 S.E$$

* within 95% *

$$* \text{Population mean } (\mu) = \bar{x} \pm 3 S.E \\ = \bar{x} \pm 2.58 S.E$$

* within 99% *

$$* \text{Systematic sampling} = N/n$$

* عنصركے نطاع الائمہ كل قدسیں ؟ *

$$* \text{Relative frequency} = \frac{\text{Frequency each category}}{\text{total frequency}}$$

↳ Percentage \Rightarrow Relative frequency * 100.

مجنتہ الطب والجرارة

۲۰۲۳