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Nombre del trabajo: Ejercicios.

Materia: Bioestadística

Grado: 4to Grupo: "A"

Comitán de Domínguez Chiapas a 16 de Octubre de 2020.

DATOS NO AGRUPADOS

40, 40, 40, 44, 45, 46, 47, 48, 49, 49,
 49, 50, 50, 50, 50, 50, 50, 50, 50, 50,
 54, 54, 55, 55, 55, 55, 56, 56, 58, 58,
 59, 60, 60, 60, 62, 62, 63, 63, 64, 65,
 65, 67, 68, 70, 72, 78, 84.

Media

$$\bar{X} = \frac{\sum y_i}{n}$$

$$\bar{X} = \frac{2670}{48}$$

$$\bar{X} = 55.62$$

Mediana

$$Me = \frac{n}{2}, \frac{n+1}{2}$$

$$Me = \frac{48}{2}, \frac{48+1}{2}$$

$$Me = 24, 24+1$$

$$Me = 24, 25$$

$$55, 55$$

$$55 + 55 = \frac{110}{2} = 55$$

Moda

= valor que se repite más.

$$Mo = 50$$

Varianza

$$S^2 = \frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n-1}$$

$$S^2 = \frac{152840^2 - \frac{2670^2}{48}}{48-1}$$

$$S^2 = \frac{152840 - 148,518.75}{47}$$

$$S^2 = 91.94$$

Desviación estándar

$$S = \sqrt{\frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n}}$$

$$S = \sqrt{91.94}$$

$$S = 9.58$$

Marisol Castro A.

DATOS NO AGRUPADOS

Ejercicio #2

27, 34, 35, 35, 35, 35, 35, 35, 35, 35,
 35, 35, 35, 35, 35, 38, 40, 40, 40, 44,
 44, 44, 44, 44, 45, 45, 54, 55, 55, 56,
 56, 57, 60, 66, 66, 67, 70, 76, 76, 77,
 77, 78, 78, 78, 78, 80, 80, 82, 85, 86,
 87, 87, 88, 89, 90, 94.

Media
 $\bar{X} = \frac{\sum y_i}{n}$

$\bar{X} = \frac{3211}{56}$
 $\bar{X} = 57.33$

Mediana
 $Me = \frac{n}{2} \text{ y } \frac{n+1}{2}$

$Me = \frac{56}{2}, \frac{56+1}{2}$
 $Me = 28, 28.5$
 $Me = 28, 29$
 55, 55

$55+55 = \frac{110}{2} = 55$

Moda
 = valor que se repite más.

Mo = 35

Varianza
 $S^2 = \frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n-1}$

$S^2 = \frac{207,513 - \frac{3211^2}{56}}{56-1}$

$S^2 = \frac{207,513 - 184,116.44}{55}$

$S^2 = 425.39$

Desviación estandar
 $S = \sqrt{\frac{\sum y_i^2 - \frac{(\sum y_i)^2}{n}}{n-1}}$

$S = \sqrt{425.39}$

$S = 20.62$

Marisol Castro A.