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**Nombre del trabajo: Ejercicios**

**Materia: Bioestadística**

**PASIÓN POR EDUCAR**

**Grado: 4°**

**Grupo: "B"**

Comitán de Domínguez Chiapas a 16 de octubre del 2020.

40, 40, 40, 44, 45, 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.

$$\sum y_i = 2670 \quad \sum y_i^2 = 152840$$

Media

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

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

$$\bar{x} = 55.62$$

Varianza

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

$$s^2 = \frac{152840 - \frac{(2670)^2}{48}}{47}$$

$$s^2 = \frac{152840 - 148518.75}{47}$$

$$s^2 = 91.94$$

Mediana

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

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

$$Me = 24, 24 + 1$$

$$Me = 24, 25$$

$$Me = 55, 55$$

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

$$Me = \frac{110}{2}$$

$$M = 55$$

Moda

$$Mo = 50$$

Desviación estandar

$$s^2 = 91.94$$

$$s = \sqrt{91.94}$$

$$s = 9.58$$

27, 34, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35,  
 35, 35, 35, 38, 40, 40, 40, 44, 44, 44, 44, 44, 44, 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

$$\sum y_i = 3211 \quad \sum y_i^2 = 207513$$

Media

$$\bar{x} = \frac{\sum y_i}{n} = \bar{x} = \frac{3211}{56} \quad \bar{x} = 57.33$$

Varianza

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

$$s^2 = \frac{207513 - \frac{(3211)^2}{56}}{55}$$

$$s^2 = \frac{207513 - 184116.44}{55}$$

$$s^2 = 425.39$$

Mediana

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

$$Me = \frac{56}{2}, \frac{56}{2} + 1$$

$$Me = 28, 29$$

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

$$Me = 55$$

Moda

$$M_0 = 35$$

Desviación estándar

$$s^2 = 425.39$$

$$s = \sqrt{425.39}$$

$$s = 20.62$$