



Nombre de alumno: Keila Elizabeth Velasco Briceño

Nombre del profesor: Jorge Enrique Albores

Nombre del trabajo: Ejercicios de datos no agrupados

Materia: Bioestadística

Grado: 4 cuatrimestre

Grupo: B

Comitán de Domínguez Chiapas a 13 de octubre del 2020.

EJERCICIO I "Datos no agrupados"

Keila Briceño

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.

$$\sum y_i = 2670$$

$$\sum y_i^2 = 152840$$

$$n = 48$$

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

$$\bar{x} = \frac{2670}{48} = 55.625 //$$

$$\text{Mediana} = mc = \frac{n}{2}, \frac{n}{2} + 1$$

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

$$mc = 24, 25$$

$$mc = 55, 55$$

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

$$mc = 55 //$$

Moda

$$mo = 50 //$$

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

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

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

$$s^2 = 91.94 //$$

Desviación estandar

$$s = \sqrt{91.94}$$

$$s = 9.58 //$$

Ejercicio 2 "Datos no agrupados"

Keila Briceño

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

$$\sum y_i = 3211 \quad \sum y_i^2 = 207513 \quad n = 56$$

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

$$\bar{x} = \frac{3211}{56} = 57.33 //$$

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

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

$$Me = 28, 29$$

$$Me = 55, 55$$

$$me = \frac{55 + 55}{2} = 55 //$$

moda

$$MO = 35 //$$

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

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

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

$$s^2 = 425.39 //$$

Desviación Estándar

$$s = \sqrt{425.39}$$

$$s = 20.62 //$$