

- UNIVERSIDAD DEL SURESTE

ALUMNA:

- LILIANA GOMEZ GERONIMO

CARRERA:

- LIC. EN PSICOLOGIA

FECHA DE ENTREGA:

- 29 / 10 / 2021

MATERIA:

- CALCULO

DOMICILIO:

- POBLADO AGUILES SERDÁN

- MAC. TAB.

Edad	Marca de clase	Frecuencia Absoluta	Frecuencia Acumulada
(10-10)	5	3	3
10-20	15	6	9
20-30	25	7	16
30-40	35	12	28
40-50	45	3	31

1: Medio Aritmetico $N=3$ $N=31$

$$\bar{x} = \frac{\sum x}{N} = \frac{(5, 15, 25) 35, 45}{5} = \frac{125}{5}$$

2: Modo $\frac{12+31}{5}$

$$\Delta_1 = 12 - 7 = 5$$

$$\Delta_2 = 12 - 3 = 9$$

$$M_0 \bar{x} = \left[\frac{5}{5 \times 9} \right] = 10.$$

$$M_0 = \left[\frac{\Delta_1}{\Delta_1 + \Delta_2} \right] C.$$

$$M_0 = \bar{x} + \left[\frac{5}{9} \right] 10$$

$$M_0 = \bar{x} + (0.55)(10)$$

$$M_0 = 90 + 05.5$$

$$M_0 = 9.55$$

3: Mediano

$$Me = Li + \left[\frac{\frac{N}{2} - \sum FA}{F_{me}} \right]$$

$$Me = 20 - (0,363)(10)$$

$$Me = 20 + 3.63$$

$$Me = 20 + \left[\frac{\frac{25}{2} - 19}{19} \right] 10$$

$$\boxed{Me = 2.63}$$

$$20 + \left[\frac{12.5 - 19}{19} \right]$$

$$20 \left[\frac{6.5}{19} \right]$$

4: Varianza

$$S^2 = \frac{\sum (x - \bar{x})^2}{N}$$

$$S^2 = \frac{(10-10)^2 + (10-20)^2 + (30+40)^2 + (40-50)^2}{31}$$

$$S^2 = \frac{(300)^2}{31} = \frac{90000}{31}$$

$$\boxed{S^2 = 93.652}$$

86.5456.

5. Desviación estándar

$$S = \sqrt{\frac{\sum (x - \bar{x})^2}{N}}$$

$$S = \sqrt{\frac{(300)^2}{31}} = \sqrt{\frac{90000}{31}}$$

$$= \sqrt{93.652}$$

$$\boxed{S = 9.67}$$