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"Semana 8" 4to. admor

11 Ordene datos.

$$\begin{array}{r} 49 = 55 - 65 = 66 - 66 = 70 - 72 = 72 \\ 72 = 74 - 75 = 75 - 76 = 76 - 77 = 78 \\ 79 = 80 - 81 = 81 - 81 = 81 - 83 = 84 \\ 90 = \end{array}$$

21 Calcule K

$$K = 1.0 + 3.322$$

$$K = 1.0 + 3.322$$

$$K = 1.0 + 3.322$$

$$K = 1.0 + 4.64$$

$$K = 5.64$$

$$\begin{aligned} &\log(\ln) \\ &\log(1.25) \\ &\log(11.397941) \end{aligned}$$

31 Calcule R.

$$90 - 49 = 41$$

$$41 + 1 = 42$$

41 Calcule I

$$K = \frac{5.64}{42} = 17.45 \text{ i}17$$

$$R = \frac{42}{42}$$

Intervalo	Lti	Lxs	Xs	Fx	Fa	Fxs
49 - 55	48.5	55.5	52	2	2	104
56 - 62	55.5	62.5	59	0	2	108
63 - 69	62.5	69.5	66	3	5	198
70 - 76	69.5	76.5	73	9	14	657
77 - 83	76.5	83.5	80	9	23	720
84 - 90	83.5	90.5	81	2	25	144

$$N = 25 \quad \text{Σ} 1833$$

$$\bar{x} = \frac{1833}{25} = 74.12$$

100%

Mediana:

$$\frac{25}{2} = 12.5$$

$$Md = l_{rit} + \left(\frac{\frac{N}{2} - f_{ac}}{f} \right) i$$

$$Md = 69.5 + \left(\frac{12.5 - 5}{9} \right) i$$

$$Md = 69.5 + \left(\frac{7.5}{9} \right) i$$

$$Md = 69.5 + 5.81$$

$$Md = 75.31$$

100%

moda

$$\Delta^1 = 9 - 9 = 0 \\ \Delta^2 = 9 - 2 = 7$$

$$MO = 16.5 + \left(\frac{\Delta^1}{\Delta^1 + \Delta^2} \right) 1$$

$$MO = 16.5 + \left(\frac{0}{0+7} \right) 17$$

$$MO = 16.5 +$$

$$MO = 16.5$$

Calcule quartiles 1, 2, 3

1, 2, 3
cuartiles

$$Q_1 = \frac{25}{4} + 1 = 6.25$$

$$Q_1 = 69.5 + \frac{16.25 - 51}{9} 7$$

$$Q_1 = 69.5 + \frac{(16.25)}{9} 1 +$$

$$Q_1 = 69.5 + (0.14) 7$$

cuartiles

$$Q_1 = 69.5 + 0.98$$

$$Q_1 = 70.48$$

Moda

$$\Delta^1 = 9 - 9 = 0$$

$$\Delta^2 = 9 - 2 = 7$$

$$MO = 16.5 + \left(\frac{\Delta^1}{\Delta^1 + \Delta^2} \right) 1$$

$$MO = 16.5 + 1 \cdot \frac{0}{0+7} 17$$

$$MO = 16.5 +$$

$$MO = 16.5$$

Calcule Cuartiles 1, 2, 3.

$$Q_1 = \frac{25}{4} * 1 = 6.25$$

$$Q_1 = 69.5 + \frac{16.25 - 51}{9} 17$$

$$Q_1 = 69.5 + \frac{(1.25)}{9} 17$$

$$Q_1 = 69.5 + 0.1417$$

$$Q_1 = 69.5 + 0.98$$

$$Q_1 = 70.48$$



Q₂

$$\frac{25}{4} \times 2 = 12.5$$

$$Q_2 = 69.5 + \frac{12.5 - 51}{9} \times 7$$

$$Q_2 = 69.5 + \frac{7.5}{9} \times 7$$

$$Q_2 = 69.5 + 10.83 \times 7$$

$$Q_2 = 69.5 + 5.81$$

$$Q_2 = 75.31$$

75.31

Q₃

$$\frac{25}{4} \times 3 = 18.75$$

$$Q_3 = 76.5 + \frac{18.75 - 14}{9} \times 7$$

$$Q_3 = 76.5 + \frac{4.75}{9} \times 7$$

$$Q_3 = 76.5 + 10.53 \times 7$$

$$Q_3 = 76.5 + 3.71$$

$$Q_3 = 80.21$$

80.21

Calcule deciles 2, 4 y 9



-Decil 2.

$$\frac{25}{10} \times 2 = 5$$

$$D_2 = 62.5 + \frac{(5-2)}{3} 7$$

$$D_2 = 62.5 + \frac{(3)}{3} 7$$

$$D_2 = 62.5 + 11 7$$

$$D_2 = 62.5 + 7$$

$$D_2 = 69.5$$

INICIO

Decil 6:

$$D_6 = 76.5 + \frac{(15-14)}{9} 7$$

$$D_6 = 76.5 + 1\frac{1}{9} 7$$

$$D_6 = 76.5 + 60.1117$$

$$D_6 = 76.5 + 0.77$$

$$D_6 = 77.27$$

INICIO

$$\frac{25}{10} \times 9 = 22.5$$

Decil 9

$$D_9 = 76.5 + \frac{122.5 - 14}{9} \times 7$$

$$D_9 = 76.5 + \frac{122.5 - 14}{9} \times 7$$

$$D_9 = 76.5 + \frac{18.5}{9} \times 7$$

$$D_9 = 76.5 + (0.94) \times 7$$

$$D_9 = 76.5 + 6.58$$

$$D_9 = 83.08$$

81 calcule percectiles 15, 76 y 95

$$P_{15} = \frac{25}{100} + 15 = 31.5$$

$$P_{15} = 62.5 + 3 \cdot \frac{75 - 21}{3} \times 7$$

$$P_{15} = 62.5 + \frac{11.75}{3} \times 7$$

$$P_{15} = 62.5 + (0.58) \times 7$$

$$P_{15} = 62.5 + 4.06$$

$$P_{15} = 66.56$$

$$(\text{P70}) \quad \frac{25}{100} \times 70 = 17.5$$

$$\text{P70} = 76.5 + \frac{(17.5 - 14)}{9} \times 7$$

$$\text{P70} = 76.5 + \frac{13.5}{9} \times 7$$

$$\text{P70} = 76.5 + (0.39) \times 7$$

$$\text{P70} = 76.5 + 2.75$$

$$\text{P70} = 79.25$$

$$(\text{P95}) \quad \frac{25}{100} \times 23.75$$

$$\text{P95} = 83.5 + \frac{(23.75 - 23)}{2} \times 7$$

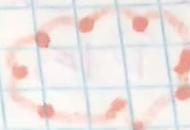
$$\text{P95} = 83.5 + \frac{0.75}{2} \times 7$$

$$\text{P95} = 83.5 + (0.38) \times 7$$

$$\text{P95} = 83.5 + 2.66$$

$$\text{P95} = 86.16$$

100%



100%

← Polígono
de
Frecuencia

