

Actividad

Instrucciones: Realice lo que a continuación se le pide.

1. Ordene datos.

70 60 72 75 74 81 76 75 78 76
65 77 81 80 72 90 81 81 72 66
55 49 84 79 83

ordenar.

55

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

$$k = 1 + 3.322 (\log n)$$

$$k = 1 + 3.322 (1.39794)$$

$$k = 3.322 \times 1.39794 = 4.64$$

$$k = 1 + 4.64$$

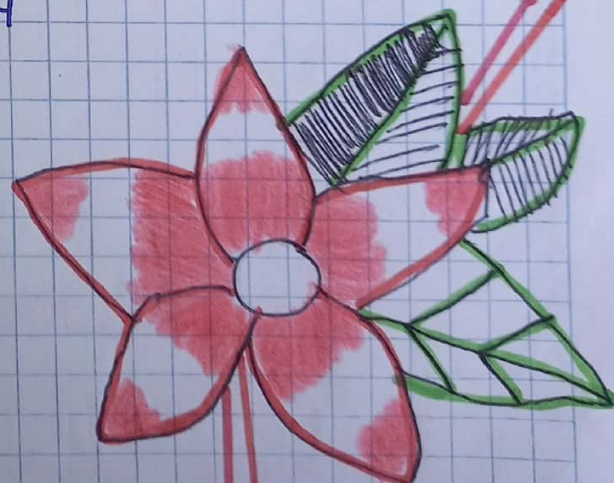
R// 5.64

$$R = D_{ma} - D_{me} + 1$$

$$R = 90 - 49 = 41$$

$$R = 41 + 1$$

R// 42

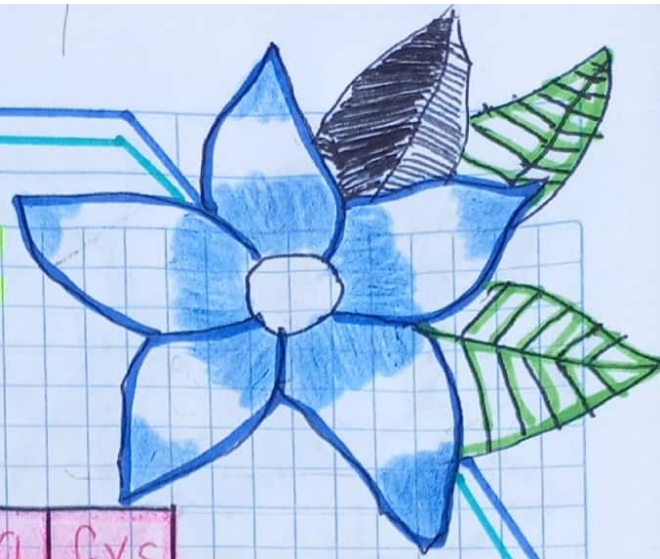


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$$i = \frac{R}{n} = \frac{42}{5.64} = 7.45 =$$

7



h	$L-A$	L_{ri}	L_{rs}	XS	F	Fa	FXS
1	49 - 55	48.5	55.5	52	2	2	104
2	56 - 62	55.5	62.5	59	0	2	0
3	63 - 69	62.5	69.5	66	3	5	198
4	70 - 76	69.5	76.5	73	9	14	657
5	77 - 83	76.5	83.5	80	9	23	720
6	84 - 90	83.5	90.5	87	2	25	174

1853

$$\bar{X} = \frac{\sum f \cdot xs}{N}$$

$$\bar{X} = \frac{1853}{25} = 74.12$$

74.12

$$Md = L_{ri} + \left(\frac{N/2 - F_{aa}}{F} \right) i$$

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

$$md = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7$$

$$md = 69.5 + \left(\frac{7.5}{9} \right) 7$$

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$$m_d = 69.5 + (0.83)7$$

$$m_d = 69.5 + 5.81$$

R11 75.31

$$m_0 = L_{11} = \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

$$9 - 3 = 6 \quad 9 - 9 = 0$$

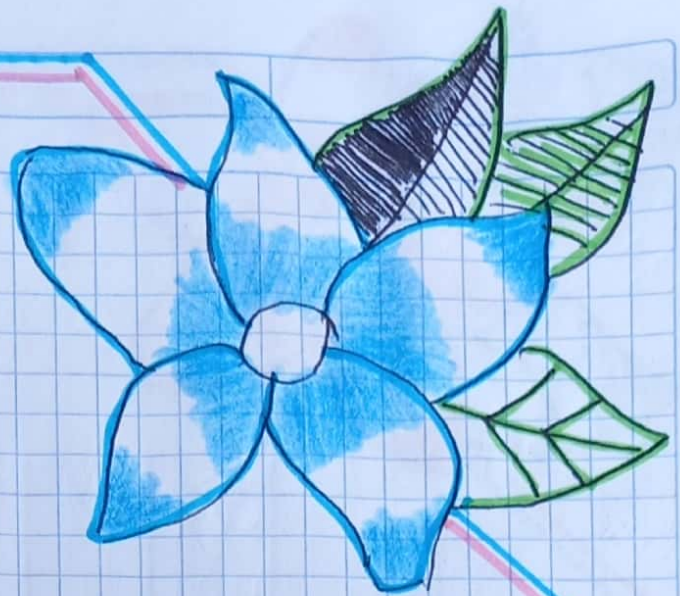
$$0 m_0 = 69.5 + \left(\frac{6}{6 + 0} \right) 7$$

$$m_0 = 69.5 + \left(\frac{6}{6} \right) 7$$

$$m_0 = 69.5 + (1) 7$$

$$m_0 = 69.5 + 7$$

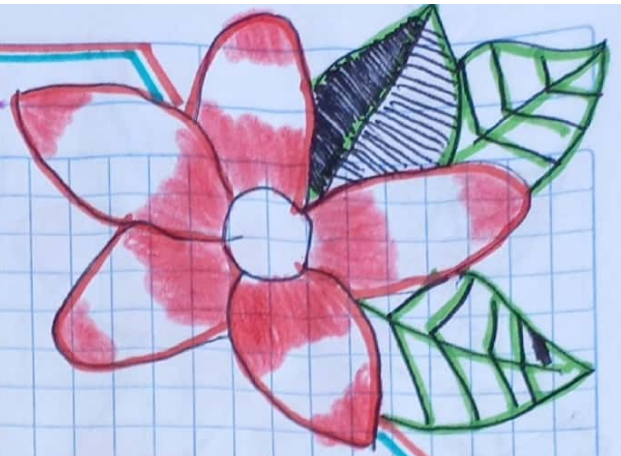
R11 76.5



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Calcule Cuartiles 1 2 y 3.



$$Q_1 = L_{ri} + \left(\frac{N/4 - f_{aa}}{f} \right) i$$

$$\frac{25}{4} = 6.25$$

$$Q_1 = 69.5 + \left(\frac{6.25 - 5}{9} \right) 7$$

$$Q_1 = 69.5 + \left(\frac{1.25}{9} \right) 7$$

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

$$Q_1 = 69.5 + 0.98$$

R11 70.48

$$Q_2 = L_{ri} + \left(\frac{\frac{2N}{4} - f_{aa}}{f} \right) i$$

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

$$Q_2 = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7$$

$$Q_2 = 69.5 + \left(\frac{7.5}{9} \right) 7$$

$$Q_2 = 69.5 + (0.83) 7$$

$$Q_2 = 69.5 + 5.81$$

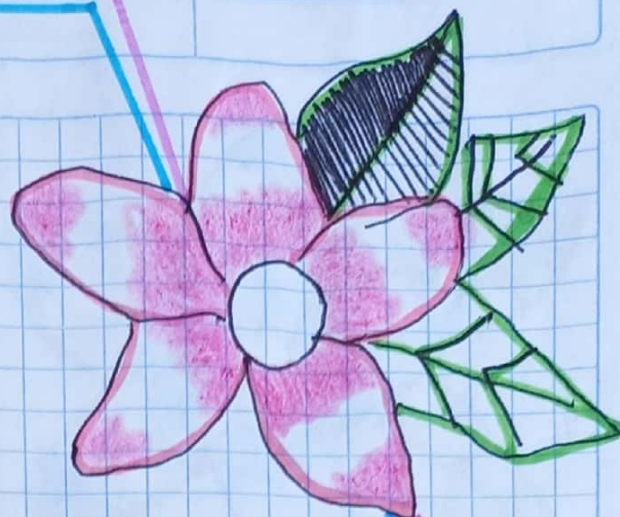
R11 75.31

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$$Q_3 = L_{ri} + \left(\frac{\frac{3N}{4} - f_{aa}}{f} \right) i$$

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



$$Q_3 = 76.5 + \left(\frac{18.75 - 14}{9} \right) 7$$

$$Q_3 = 76.5 + \left(\frac{4.75}{9} \right) 7$$

$$Q_3 = 76.5 + (0.53) 7$$

$$Q_3 = 76.5 + 3.71$$

R// 80.21

Calcule deciles 2, 6 y 9

$$D_2 = L_{ri} + \left(\frac{\frac{N \cdot 2}{10} - f_{aa}}{f} \right) i$$

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

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

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

$$D_2 = 62.5 + (1) 7$$

$$D_2 = 62.5 + 7$$

R// 69.5

$$D_b = L_{ri} + \left(\frac{N_b}{10} - f_{aa} \right) i$$

$$\frac{25 \times 6}{10} = 15$$

$$D_b = 76.5 + \left(\frac{15 - 14}{9} \right) 7$$

$$D_b = 76.5 + \left(\frac{1}{9} \right) 7$$

$$D_b = 76.5 + (0.11) 7$$

$$D_b = 76.5 + 0.77$$

77.27

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$$D_a = L_{ri} + \left(\frac{N_a}{10} - f_{aa} \right) i$$

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

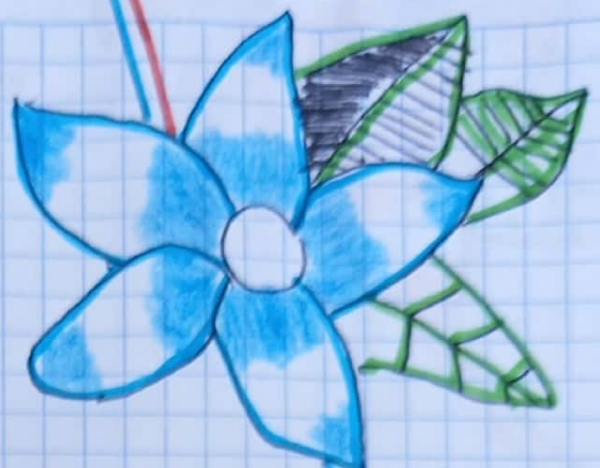
$$D_a = 76.5 + \left(\frac{22.5 - 14}{9} \right) 7$$

$$D_a = 76.5 + \left(\frac{8.5}{9} \right) 7$$

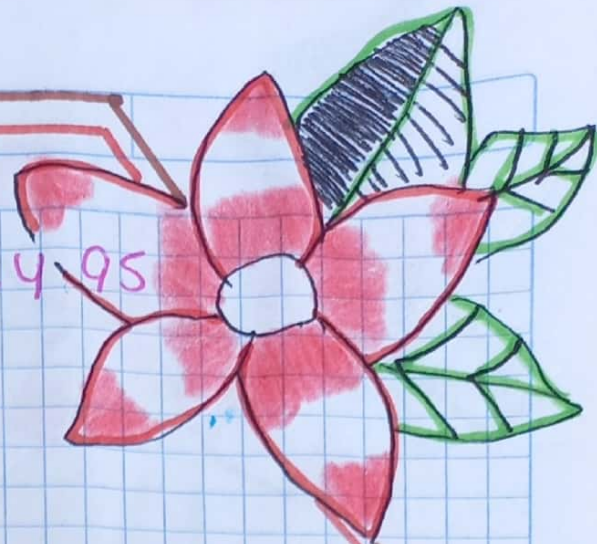
$$D_a = 76.5 + (0.94) 7$$

$$D_a = 76.5 + 6.58$$

R// 83.08



Calculate Percentiles 15, 70, 95



$$P_{15} = L_{ri} + \left(\frac{\frac{N \times}{100} - f_{aa}}{f} \right) i$$

$$\frac{25 \times 15}{100} = 3.75$$

$$P_{15} = 62.5 + \left(\frac{3.75 - 2}{3} \right) 7$$

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$$P_{15} = 62.5 + \left(\frac{1.75}{3} \right) 7$$

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

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

R11 66.56

$$P_{70} = L_{ri} + \left(\frac{\frac{N \times}{100} - f_{aa}}{f} \right) i$$

$$\frac{25 \times 70}{100} = 17.5$$

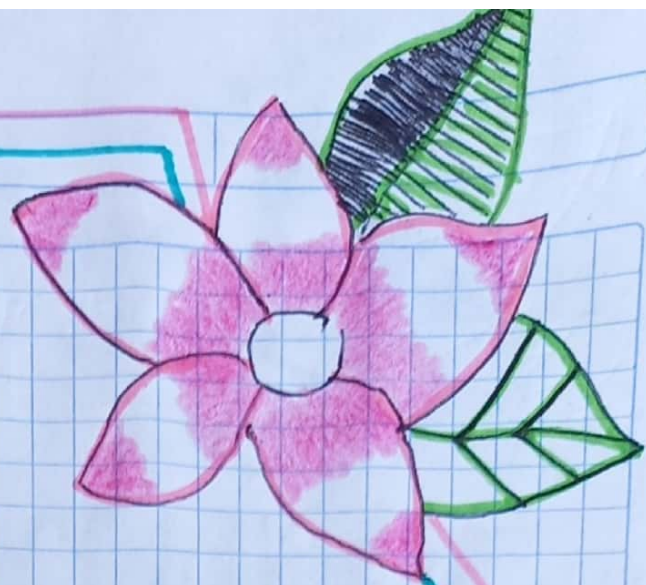
$$P_{70} = 76.5 + \left(\frac{17.5 - 14}{9} \right) 7$$

$$P_{70} = 76.5 + \left(\frac{3.5}{9} \right) 7$$

$$P_{70} = 76.5 + (0.39) 7$$

R11 79.23

$$P_{70} = 76.5 + 2.73$$



$$PQS = Lii + \left(\frac{\frac{NX}{100} - faa}{F} \right) i$$

$$\frac{25 \times 95}{100} = 23.75$$

$$PQS = 83.5 + \left(\frac{23.75 - 23}{2} \right) 7$$

$$PQS = 83.5 + \left(\frac{0.75}{2} \right) 7$$

$$PQS = 83.5 + (0.38) 7$$

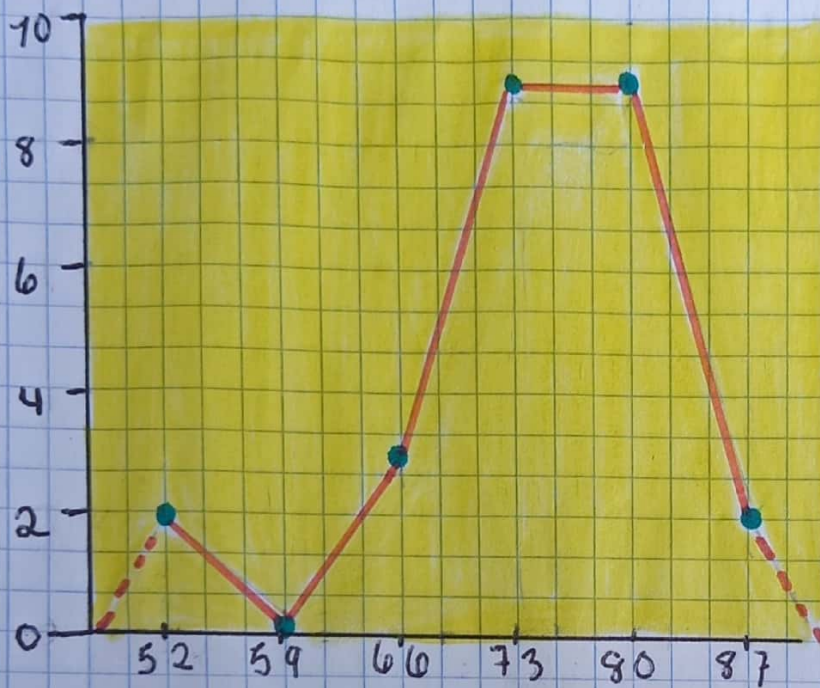
$$PQS = 83.5 + 2.66$$

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R1186.16

Polígono de frecuencias

Puntajes de 25 alumnos en un examen de Contabilidad de Sociedades.



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