

Actividad #3

Puntros obtenidos por 43 alumnos en un examen de Ciencias Naturales.

Intervalo	Li	F	Fa	Xs
54 - 58	53.5	4	4	56
59 - 63	58.5	6	10	61
64 - 68	63.5	12	22	66
69 - 73	68.5	13	35	71
74 - 78	73.5	3	38	76
79 - 83	78.5	4	42	81
84 - 88	83.5	1	43	86

$$43/4 = 10.75$$

$$2 \times 43/4 = 21.50$$

$$3 \times 43/4 = 32.25$$

$$Q_1 = 63.5 + \frac{(10.75 - 10)}{12} \times 5 = 63.5 + \frac{(0.75)}{12} \times 5 = 63.5 + (0.0615) \times 5 = 63.5 + 0.30 = 63.80$$

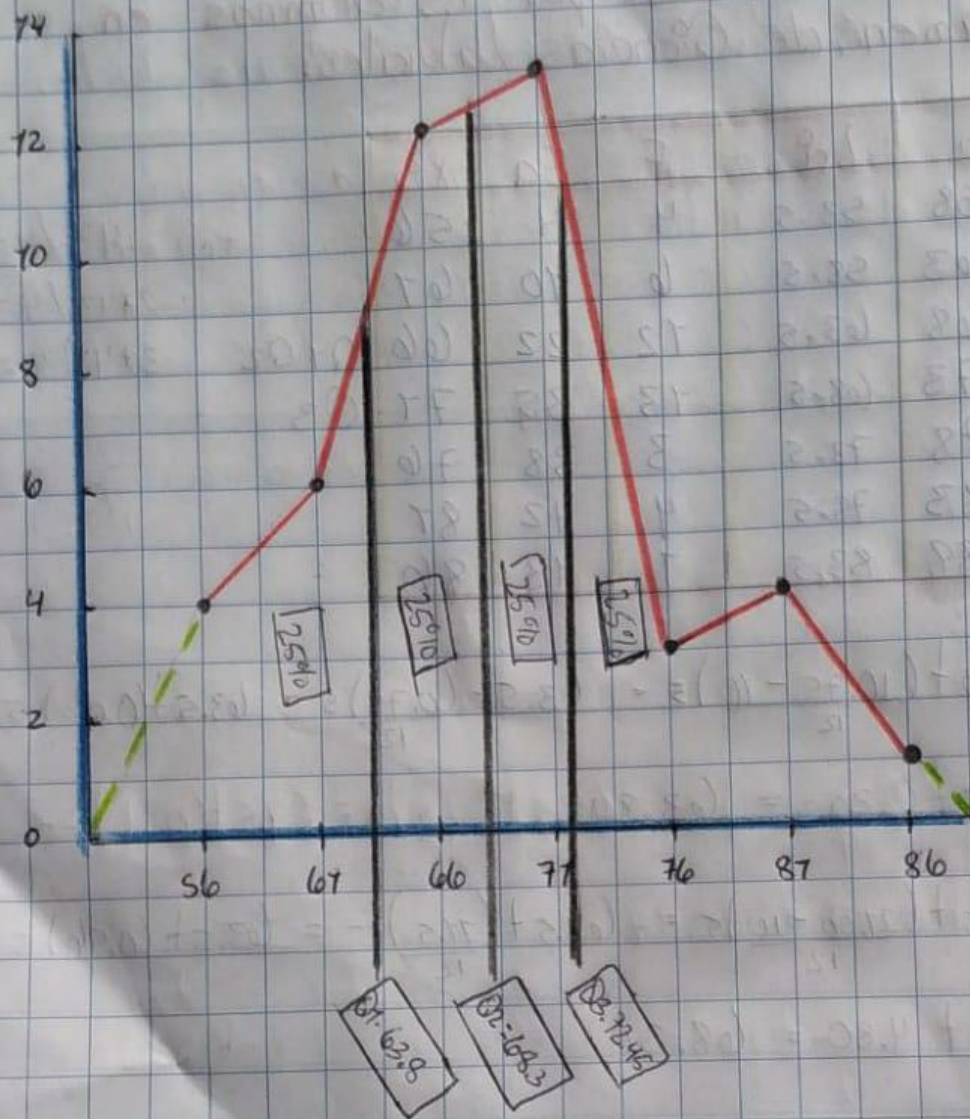
$$Q_2 = 63.5 + \frac{(21.50 - 10)}{12} \times 5 = 63.5 + \frac{(11.5)}{12} \times 5 = 63.5 + (0.96) \times 5 = 63.5 + 4.80 = 68.30$$

$$Q_3 = 68.5 + \frac{(32.25 - 22)}{13} \times 5 = 68.5 + \frac{(10.25)}{13} \times 5 = 68.5 + (0.79) \times 5 = 68.5 + 3.95 = 72.45$$

$$Q_1 = 63.8$$

$$Q_2 = 68.3$$

$$Q_3 = 72.45$$



$$QD = \frac{Q_3 - Q_1}{2}$$

$$QD = \frac{72.45 - 63.8}{2} = 4.33$$