

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

Intervalo	dx_i	f	fa
54-58	53.5	4	4
59-63	58.5	6	10
64-68	63.5	12	22
69-73	68.5	13	35
74-78	73.5	3	38
79-83	78.5	4	42
84-88	83.5	1	43

$$Q1 = 2x_i + \left(\frac{N/4 - faa}{f} \right) i$$

$$43/4 = 10.75$$

$$Q1 = 63.5 + \left(\frac{10.75 - 10}{12} \right) 5$$

$$Q1 = 63.5 + \left(\frac{0.75}{12} \right) 5$$

$$Q1 = 63.5 + (0.66) 5 \quad Q1 = 63.5 + 0.3 \quad Q1 = \underline{\underline{63.8}}$$

$$Q2 = 2x_i + \left(\frac{2N/4 - faa}{f} \right) i$$

$$2 \times 43 = 21.5$$

$$Q2 = 63.5 + \left(\frac{21.5 - 10}{12} \right) 5$$

$$Q2 = 63.5 + \left(\frac{11.5}{12} \right) 5$$

$$Q2 = 63.5 + (0.96) 5$$

$$Q2 = 63.5 + 4.8 \quad Q2 = \underline{\underline{68.3}}$$

$$Q3 = L_{\frac{3}{4}} + \left(\frac{3N/4 - 500}{5} \right) i$$

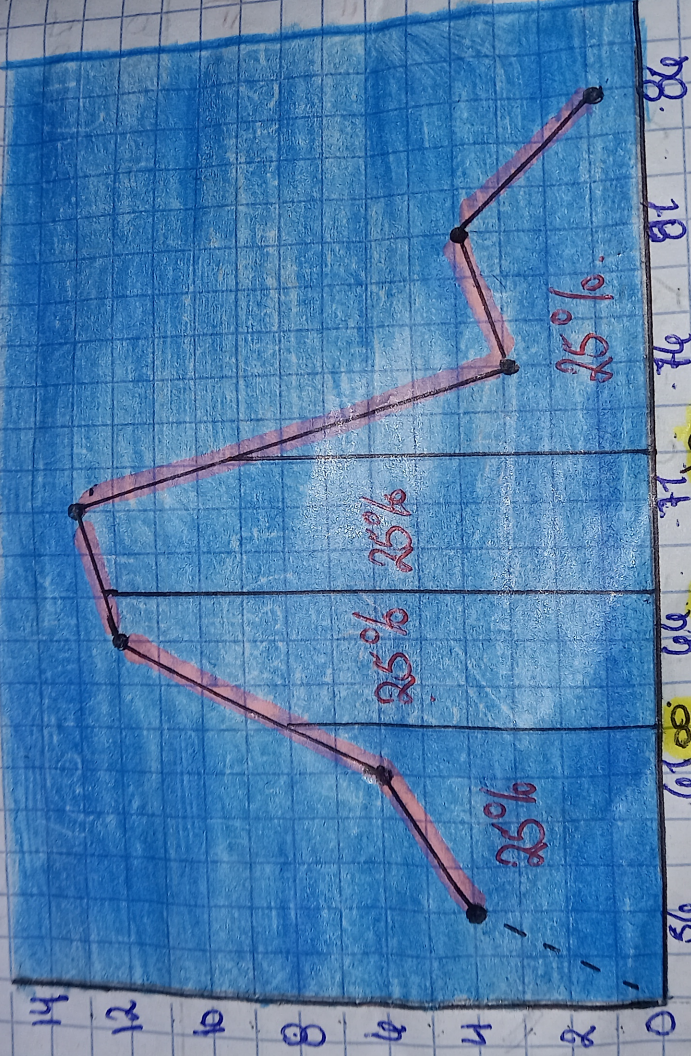
$$\frac{3 \times 43}{4} = 32.25$$

$$Q3 = 68.5 + \left(\frac{32.25 - 22}{5} \right) 5$$

$$Q3 = 68.5 + (10.25) 5$$

$$Q3 = 68.5 + (6.79) 5 \quad Q3 = 68.5 + 33.95 \quad Q3 = 72.45$$

Polígono de frecuencias (Puntos obtenidos por cada alumno en un examen de Gramática) naturales.



$$Q3 = 72.45$$

$$Q2 = 68.3$$

$$Q1 = 61.8$$

Depreciación Inter.

Puntos Medios

$$DD = Q3 - Q1$$

$$QD = \frac{72.45^2 - 61.8^2}{2} = 433$$