

Centros de gravedad por 43 observaciones en el curso de

X	A	Lx_i	$x_i - \bar{x}$	f	$f \cdot x_i$	Distribución
1	54-58	53.5	56	4	214	4
2	59-63	58.5	61	6	351	10
3	64-68	63.5	66	12	798	22
4	69-73	68.5	71	13	920.5	35
5	74-78	73.5	76	3	220.5	38
6	79-83	78.5	81	4	314	42
7	84-88	83.5	86	1	83.5	43
				$\Sigma =$	431	

$$Q_1 = Lx_i + \left(\frac{\frac{N}{4} - f_{aa}}{f_i} \right) i$$

$$Q_1 = 53.5 + \left(\frac{\frac{43}{4} - 9}{13} \right) 4$$

$$Q_1 = 53.5 + 10.75$$

$$Q_1 = 63.5 + \left(\frac{10.75 - 10}{12} \right) i$$

$$Q_1 = 63.5 + 0.4167 \cdot 12 = 68.6$$

$$Q_1 = 63.5 + \left(\frac{0.36}{12} \right) 5 = 63.5 + 0.15 = 63.65$$

$$Q_1 = 63.5 + 0.30 = 63.8$$

$$Q_1 = 63.5 + \left(\frac{N_1}{4} - f_{aa} \right) i =$$

$$\frac{86}{4} = 21.5$$

$$Q_1 = 63.5 + \left(\frac{21.5 - 10}{12} \right) 5 = Q_1 = 63.5 + \left(\frac{11.5}{12} \right) 5$$

$$Q_1 = 63.5 + (0.96) 5 = Q_1 = 63.5 + 4.8 = 68.3$$

$$Q_3 = 68.5 + \left(\frac{3N/4 - f_{aa}}{f} \right) i = \frac{129}{4} = 32.25$$

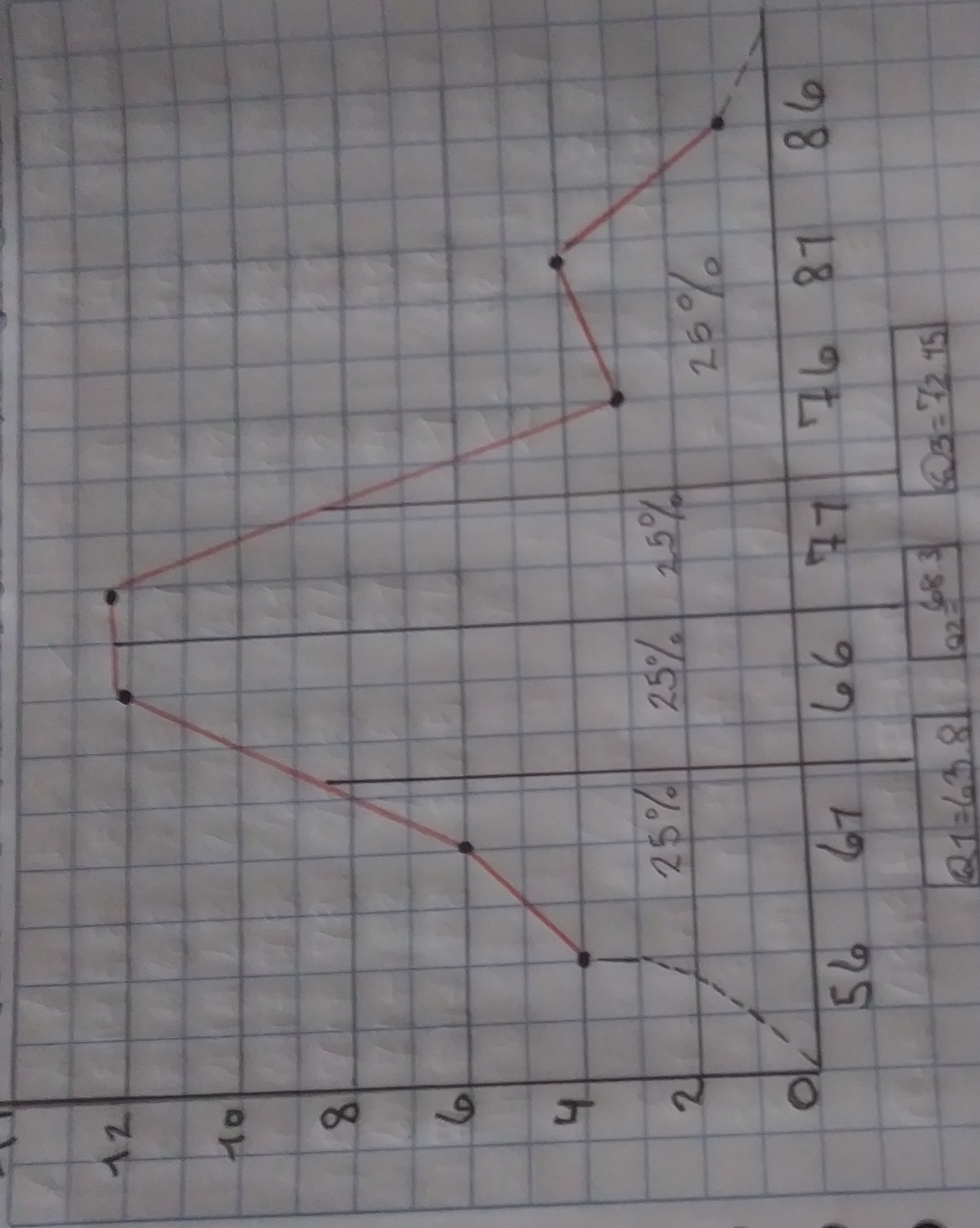
$$Q_3 = 68.5 + \left(\frac{32.25 - 22}{13} \right) 5$$

$$Q_3 = 68.5 + \left(\frac{10.25}{13} \right) 5 = Q_3 = 68.5 + (0.79) 5$$

$$Q_3 = 68.6 + 3.95 = 72.45$$

Polígono de Inversión

14) Criterio Divisor en el caso de inversión



$$QD = \frac{Q3 - Q1}{2}$$

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