

Actividad 3

Puntajes Obtenidos por 25 alumnas en un examen de Estadística Social

Intervalo	Lri	Lrs	f	Fo	Xs
54 - 58	53.5	58.5	4	4	56
59 - 63	58.5	63.5	6	10	61
64 - 68	63.5	68.5	12	22	66
69 - 73	68.5	73.5	13	35	71
74 - 78	73.5	78.5	3	38	76
79 - 83	78.5	83.5	4	42	81
84 - 88	83.5	88.5	1	43	86

$$Q_1 = 63.8$$

$$Q_2 = 68.3$$

$$Q_3 = 72.45$$

$$Q_1 = Lri + \left(\frac{N/4 - F_{aa}}{f} \right) i$$

$$\frac{N}{4} = \frac{43}{4} = 10.75$$

$$Q_1 = 63.5 + 0.3$$

$$Q_1 = 63.8$$

$$Q_1 = 63.5 + \left(\frac{10.75 - 10}{12} \right) 5$$

$$Q_1 = 63.5 + (0.06) 5$$

$$Q_2 = Lri + \left(\frac{2N/4 - F_{aa}}{f} \right) i$$

$$Q_2 = 63.5 + 4.8$$

$$Q_2 = 68.3$$

$$\frac{2 \times 43}{4} = \frac{86}{4} = 21.5$$

$$Q_2 = 63.5 + \left(\frac{21.5 - 10}{12} \right) 5$$

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

$$Q_2 = 63.5 + (0.96) 5$$

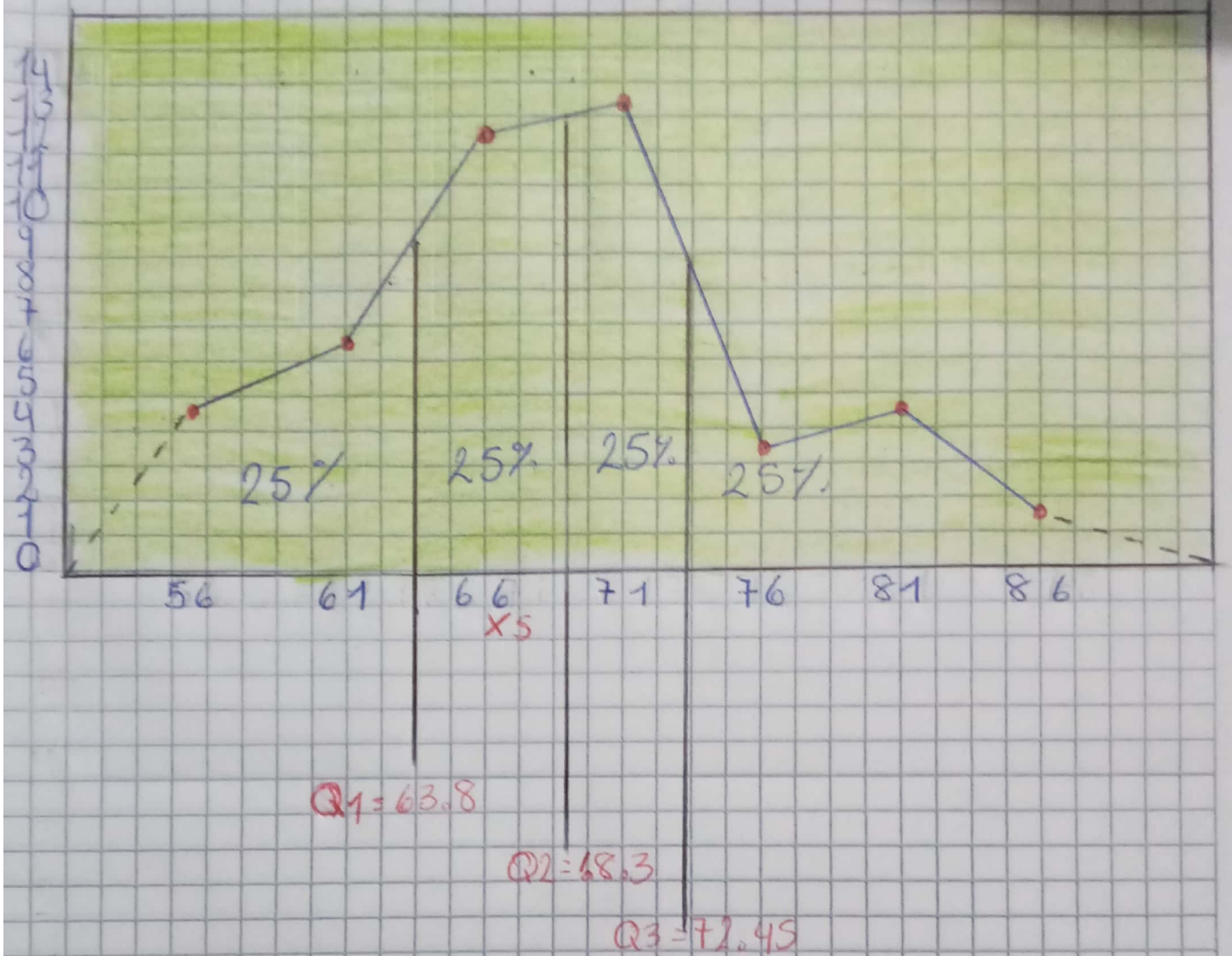
$$Q_3 = 68.5 + (0.79) 5$$

$$Q_3 = Lri + \left(\frac{3N/4 - F_{aa}}{f} \right) i$$

$$Q_3 = 68.5 + 3.95$$

$$\frac{3 \times 43}{4} = \frac{129}{4} = 32.25$$

$$Q_3 = 72.45$$



$$Q_0 = \frac{Q_3 - Q_1}{2}$$

$$Q_0 = \frac{72.45 - 63.8}{2} = 4.33$$