

Tearea #5

Puntajes obtenidos por 43 alumnos en un examen de Ciencias naturales.

Intervalo	$\bar{x}_i$	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

$\Sigma 43$

D_2
 D_3 D_4
 D_7 D_8

D_2

$$D_2 = 58.5 + \left(\frac{8.60 - 4}{6} \right) s$$

$$\frac{43 \times 2}{10} = 8.60$$

$$D_2 = 58.5 + \left(\frac{4.60}{6} \right) s$$

$$D_2 = 58.5 + (0.77) s$$

$$D_2 = 58.5 + 3.85$$

$$D_2 = 62.35$$

D_3

$$D_3 = 63.5 + \left(\frac{12.90 - 10}{12} \right) s$$

$$\frac{43 \times 3}{10} = 12.90$$

$$D3 = 63.5 + \left(\frac{2.90}{12}\right)S$$

$$D3 = 63.5 + 1.20$$

$$D3 = 63.5 + (0.24)S$$

$$D3 = 64.70$$

D4

$$D4 = 63.5 + \left(\frac{17.20 - 10}{12}\right)S$$

$$\frac{43 \times 4}{10} = 17.20$$

$$D4 = 63.5 + \left(\frac{7.20}{12}\right)S$$

$$D4 = 63.5 + (0.60)S$$

$$D4 = 63.5 + 3$$

$$D4 = 66.50$$

D7

$$D7 = 68.5 + \left(\frac{30.10 - 22}{13}\right)S$$

$$\frac{43 \times 7}{10} = 30.10$$

$$D7 = 68.5 + \left(\frac{8.10}{13}\right)S$$

$$D7 = 68.5 + (0.62)S$$

$$D7 = 68.5 + 3.10$$

$$D7 = 71.60$$

Q8

$$Q8 = 68.5 + \left(\frac{34.40 - 22}{13} \right) 5$$

$$\frac{43 \times 8 - 34.40}{10}$$

$$Q8 = 68.5 + \left(\frac{12.40}{13} \right) 5$$

$$Q8 = 68.5 + (0.95) 5$$

$$Q8 = 68.5 + 4.75$$

$$Q8 = 73.25$$