

Actividad #5

Puntos obtenidos por 43 alumnos en un examen de Ciencias Naturales

Intervalo	L _{ri}	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

$$Dx = L_{ri} + \left(\frac{\frac{Nx}{10} - F_{ao}}{f} \right) p$$

Decil 2

$$D_2 = 58.5 + \left(\frac{8.6 - 4}{6} \right) 5$$

$$D_2 = 58.5 + \left(\frac{4.6}{6} \right) 5$$

$$D_2 = 58.5 + (0.77) 5$$

$$D_2 = 58.5 + 3.85 = 62.35$$

Decil 4

$$D_4 = 63.5 + \left(\frac{17.20 - 10}{12} \right) 5$$

$$D_4 = 63.5 + \left(\frac{7.20}{12} \right) 5$$

$$D_4 = 63.5 + (0.60) 5$$

$$D_4 = 63.5 + 3 = 66.5$$

Decil 3

$$D_3 = 63.5 + \left(\frac{12.90 - 10}{12} \right) 5$$

$$D_3 = 63.5 + \left(\frac{2.90}{12} \right) 5$$

$$D_3 = 63.5 + (0.24) 5$$

$$D_3 = 63.5 + 1.20 = 64.70$$

Recip 7

$$D_7 = 68.5 + \left(\frac{30.10 - 22}{13} \right) 5$$

$$D_7 = 68.5 + \left(\frac{8.10}{13} \right) 5$$

$$D_7 = 68.5 + (0.62) 5$$

$$D_7 = 68.5 + 3.10 = 71.6$$

Recip 8

$$D_8 = 68.5 + \left(\frac{34.4 - 22}{13} \right) 5$$

$$D_8 = 68.5 + \left(\frac{12.4}{13} \right) 5$$

$$D_8 = 68.5 + (0.95) 5$$

$$D_8 = 68.5 + 4.75 = 73.25$$

Respuestas

$$D_2 = 62.35$$

$$D_4 = 66.5$$

$$D_3 = 64.70$$

$$D_7 = 71.6$$

$$D_8 = 73.25$$