

Instituto Privado Mixto

“Rafael Arévalo Martínez”



Nombre del Estudiante: Sheily Yuliana Vásquez
López

Catedrático: Josué Estrada

Carrera: Administración de Empresas

Grado: Cuarto

Curso: Estadística

Trabajo: Actividad #5 III Bloque

Tema: Deciles

Ciclo Escolar: 2,021

ACTIVIDAD #5

Instrucciones: Complete la siguiente tabla y calcule los Deciles 2, 3, 4, 7 y 8

Punteos Obtenidos por 43 alumnos en un examen de Ciencias Naturales

Intervalo	Lri	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

$$D2 = Lri + \left(\frac{N2}{10} - faa \right) \frac{i}{f}$$

$$\frac{43 \times 2}{10} = 8.6$$

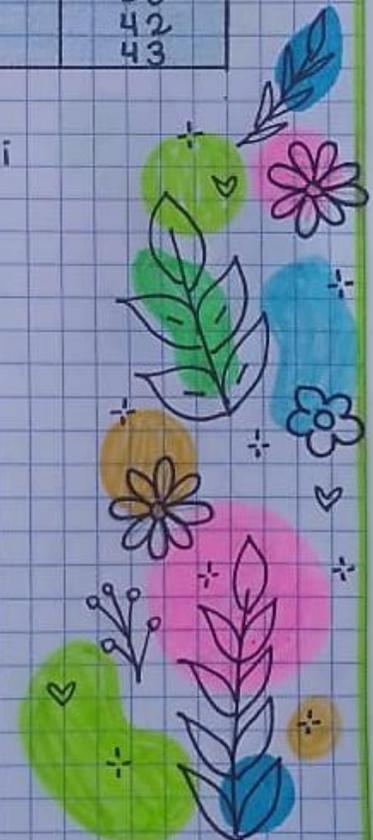
$$D2 = 58.5 + \left(\frac{8.6 - 4}{6} \right) 5$$

$$D2 = 58.5 + \left(\frac{4.6}{6} \right) 5$$

$$D2 = 58.5 + (0.77) 5$$

$$D2 = 58.5 + 3.85$$

$$D2 = 62.35$$



$$D3 = Lr_i + \left(\frac{N3}{10} - f_{aa} \right) i$$

$$\frac{43 \times 3}{10} = 12.9$$

$$D3 = 63.5 + \left(\frac{12.9 - 10}{12} \right) 5$$

$$D3 = 63.5 + \left(\frac{2.9}{12} \right) 5$$

$$D3 = 63.5 + (0.24) 5$$

$$D3 = 63.5 + 1.20$$

$$D3 = 64.7$$

$$D4 = Lr_i + \left(\frac{N4}{10} - f_{aa} \right) i$$

$$\frac{43 \times 4}{10} = 17.2$$

$$D4 = 63.5 + \left(\frac{17.2 - 10}{12} \right) 5$$

$$D4 = 63.5 + \left(\frac{7.2}{12} \right) 5$$

$$D4 = 63.5 + (0.6) 5$$

$$D4 = 63.5 + 3$$

$$D4 = 66.5$$



$$D7 = L_{ri} + \left(\frac{N_7}{10} - f_{aa} \right) i$$

$$43 \times \frac{7}{10} = 30.1$$

$$D7 = 68.5 + \left(\frac{30.1 - 22}{13} \right) 5$$

$$D7 = 68.5 + \left(\frac{8.1}{13} \right) 5$$

$$D7 = 68.5 + (0.62) 5$$

$$D7 = 68.5 + 3.1$$

$$D7 = 71.6$$

$$D8 = L_{ri} + \left(\frac{N_8}{10} - f_{aa} \right) i$$

$$43 \times \frac{8}{10} = 34.4$$

$$D8 = 68.5 + \left(\frac{34.4 - 22}{13} \right) 5$$

$$D8 = 68.5 + \left(\frac{12.4}{13} \right) 5$$

$$D8 = 68.5 + (0.95) 5$$

$$D8 = 68.5 + 4.75$$

$$D8 = 73.25$$

