

Instituto Privado Mixto

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Catedrático: Josué Estrada

Carrera: Administración de Empresas

Grado: Cuarto

Curso: Estadística

Trabajo: Actividad #4 III Bloque

Tema: Deciles

Ciclo Escolar: 2,021

ACTIVIDAD #4

Instrucciones: Complete la siguiente tabla y calcule los Deciles 1, 3, 5, 6 y 9

Punteos obtenidos por 25 alumnos en un examen de Estudios Sociales I de Primero Básico

Intervalo	Lri	f	fa
49 - 55	48.5	2	2
56 - 69	55.5	3	5
70 - 76	69.5	9	14
77 - 83	76.5	9	23
84 - 90	83.5	2	25

$$D1 = Lri + \left(\frac{\frac{N1}{10} - faa}{f} \right) i \quad \frac{25 \times 1}{10} = 2.5$$

$$D1 = 55.5 + \left(\frac{2.5 - 2}{3} \right) 7$$

$$D1 = 55.5 + \left(\frac{0.5}{3} \right) 7$$

$$D1 = 55.5 + (0.17) 7$$

$$D1 = 55.5 + 1.19$$

$$D1 = 56.69$$



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

$$\frac{25 \times 3}{10} = 7.5$$

$$D3 = 69.5 + \left(\frac{7.5 - 5}{9} \right) 7$$

$$D3 = 69.5 + \left(\frac{2.5}{9} \right) 7$$

$$D3 = 69.5 + (0.28) 7$$

$$D3 = 69.5 + 1.96$$

$$D3 = 71.46$$

$$D5 = L_{ri} + \left(\frac{\frac{N5}{10} - f_{aa}}{f} \right) i$$

$$\frac{25 \times 5}{10} = 12.5$$

$$D5 = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7$$

$$D5 = 69.5 + \left(\frac{7.5}{9} \right) 7$$

$$D5 = 69.5 + (0.83) 7$$

$$D5 = 69.5 + 5.81$$

$$D5 = 75.31$$



$$D_6 = L_{ri} + \left(\frac{\frac{N_6}{10} - f_{aa}}{f} \right) i$$

$$\frac{25 \times 6}{10} = 15$$

$$D_6 = 76.5 + \left(\frac{15 - 14}{9} \right) 7$$

$$D_6 = 76.5 + \left(\frac{1}{9} \right) 7$$

$$D_6 = 76.5 + (0.11) 7$$

$$D_6 = 76.5 + 0.77$$

$$D_6 = 77.27$$

$$D_9 = L_{ri} + \left(\frac{\frac{N_9}{10} - f_{aa}}{f} \right) i$$

$$\frac{25 \times 9}{10} = 22.5$$

$$D_9 = 76.5 + \left(\frac{22.5 - 14}{9} \right) 7$$

$$D_9 = 76.5 + \left(\frac{8.5}{9} \right) 7$$

$$D_9 = 76.5 + (0.94) 7$$

$$D_9 = 76.5 + 6.58$$

$$D_9 = 83.08$$

