

Tarea #4:

Puntos obtenidos por 25 alumnos en un examen de Estudios Sociales de Primero Basico

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

D₃

D₅

D₆

D₉

D₁

$$D_1 = 55.5 + \left(\frac{2.5 - 2}{3} \right) 7 =$$

$$\frac{25 \times 1}{10} = 2.50$$

$$D_1 = 55.5 + \left(\frac{0.5}{3} \right) 7$$

$$D_1 = 55.5 + (0.17) 7$$

$$D_1 = 55.5 + 1.09$$

$$D_1 = 56.69$$

D₃

$$D_3 = 69.5 + \left(\frac{7.5 - 5}{9} \right) 7$$

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

$$D_3 = 69.5 + \left(\frac{2.5}{9} \right) 7$$

$$D_3 = 69.5 + (0.28) 7$$

$$D_3 = 69.5 + 1.96 = 71.46$$

$$D_3 = 71.46$$

D_5

$$D_5 = 69.5 + \left(\frac{12.5 - 5}{9} \right) 7$$

$$\frac{2S \times S}{10} = 12.5$$

$$D_5 = 69.5 + \left(\frac{7.5}{9} \right) 7$$

$$D_5 = 69.5 + (0.83) 7$$

$$D_5 = 69.5 + 5.81$$

$$D_5 = 75.31$$

D_6

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

$$\frac{2S \times 6}{10} = 15$$

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

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

$$D_6 = 76.5 + 0.77$$

$$D_6 = 77.27$$

Dq

$$Dq = 76.5 + \left(\frac{22.5 - 74}{9} \right) 7$$

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

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

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

$$Dq = 76.5 + 6.58$$

$$Dq = 83.08$$