

Alvaro Gramajo
Tarea 7

Calcule lo siguiente

Variales: 1 y 3

Deciles: 1, 5

Percentiles: 70 y 95

Examen de matemáticas de Sexto Primaria

X	L	A	F	Fa	Lr
1	43	56	5	5	43.5
2	57	65	8	13	56.5
3	66	71	7	20	65.5
4	75	83	9	29	74.5
5	84	92	6	35	83.5

$$Q1 = Lr9 + \left(\frac{9.75 - 5}{8} \right) 9$$

$$Q1 = 56.5 + \left(\frac{3.75}{8} \right) 9$$

$$Q1 = 56.5 + (0.47) 9$$

$$Q1 = 56.5 + 4.23$$

$$Q1 = 60.73$$

$$Q2 = 74.5 + \left(\frac{26.25 - 20}{9} \right) 9$$

$$Q2 = 74.5 + \left(\frac{6.25}{9} \right) 9$$

$$Q2 = 74.5 + (0.69) 9$$

$$Q2 = 74.5 + 6.21$$

$$Q2 = 80.71$$

Cuantiles

$$D_1 = 47.5 + \left(\frac{3.5 - 0}{5} \right) 9$$

$$D_1 = 47.5 + \left(\frac{3.5}{5} \right) 9$$

$$D_1 = 47.5 + (0.7) 9$$

$$D_1 = 47.5 + 6.3$$

$$D_1 = 53.8$$

$$D_5 = 65.5 + \left(\frac{77.5 - 73}{7} \right) 9$$

$$D_5 = 65.5 + \left(\frac{4.5}{7} \right) 9$$

$$D_5 = 65.5 + (0.64) 9$$

$$D_5 = 65.5 + 5.76$$

$$D_5 = 71.26$$

Deciles

Percentiles

$$P_{70} = 74.5 + \left(\frac{24.5 - 20}{9} \right) 9$$

$$P_{70} = 74.5 + \left(\frac{4.5}{9} \right) 9$$

$$P_{70} = 74.5 + (0.5) 9$$

$$P_{70} = 74.5 + 4.5$$

$$P_{70} = 79$$

$$P85 = 83.5 + \left(\frac{29.75 - 29}{6} \right) 9$$

$$P85 = 83.5 + \left(\frac{0.75}{6} \right) 9$$

$$P85 = 83.5 + (0.13) 9$$

$$P85 = 83.5 + 1.17$$

$$P85 = 84.67$$