

TAREA 1- BLOQUE 2- DANILO MARTINEZ- ESTADISTICA

DANILO MARTINEZ - TAREA 1

Examen de matemáticas de texto primaria

X	F	FA	LRI
42-56	5	5	47.5
57-65	8	13	56.5
66-74	7	20	65.5
75-83	9	29	74.5
84-92	6	35	83.5

① Cuartiles

$$Q1 = LRI + \left(\frac{\frac{N}{4} - FA_{i-1}}{F} \right) i$$

$$Q1 = 56.5 + \left(\frac{8.75 - 5}{8} \right) 9$$

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

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

$$Q1 = 56.5 + 4.23$$

$$Q1 = 60.73$$

$$Q3 = LRI + \left(\frac{26.25 - 20}{9} \right) 9$$



$$Q_3 = 74.5 + \left(\frac{6.25}{9} \right) 9$$

$$Q_3 = 74.5 + (0.69) 9$$

$$Q_3 = 74.5 + 6.21$$

$$Q_3 = 80.71$$

② Deciles

$$D_x = LR_i + \left(\frac{N_x - f_{aa}}{F} \right) i$$

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

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

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

$$D_x = 47.5 + 6.3$$

$$D_1 = 53.8$$

$$D_5 = \left(\frac{65.5 - 13}{7} \right) 9$$

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

$$D_5 = (0.64) 9$$

$$D_5 = 65.5 + 5.76$$

$$D_5 = 71.26$$

③ PERCENTILES

$$P_{40} = LR \left(\frac{24.5 - 20}{9} \right) 9$$

$$P_{40} = 74.5 \left(\frac{4.5}{9} \right) 9$$

$$P_{40} = 74.5 (0.5) 9$$

$$P_{40} = 71.9$$

$$P_{85} = LR \left(\frac{29.75 - 29}{6} \right) 9$$

$$P_{85} = 83.5 \left(\frac{0.75}{6} \right) 9$$

$$P_{85} = 83.5 (0.13) 9$$

$$P_{85} = 83.5 + 1.17$$

$$P_{85} = 84.67$$

