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Curso: Estadística

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IPRAM

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Examen de matematicas de sexto Primaria.

X	Lri	F	Fa
48-56	5	5	47.5
57-65	8	13	56.5
66-74	7	20	65.5
75-83	6	29	74.5
84-92	9	35	83.5

① Cuartiles.

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

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

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

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

$$Q1 = 56.5 + 4.23 \qquad Q1 = 60.73$$

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

$$Q3 = 74.5 + \left(\frac{6.25}{9}\right) 9$$

$$Q3 = 74.5 + (0.69) 9$$

$$Q3 = 74.5 + 6.21$$

$$Q3 = 80.71$$

② Deciles

$$Dx = LRI + \left(\frac{Nx - Faca}{f}\right) i$$

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

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

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

$$Dx = 47.5 + 6.3$$

$$Dx = 53.8$$

$$D5 = 65.5 \left(\frac{17.5 - 13}{7}\right) 9$$

$$D5 = 65.5 \left(\frac{4.5}{7}\right) 9$$

$$D5 = 65.5 (0.64) 9$$

$$D5 = 65.5 + 5.76$$

$$D5 = 71.26$$

③ percentiles

$$p70 = LRI \left(\frac{24.5-20}{9}\right)9$$

$$p70 = 74.5\left(\frac{4.5}{9}\right)9$$

$$p70 = 74.5(0.5)9$$

$$p70 = 74.5 + 4.5$$

$$p70 = 79$$

$$p85 = LRI \left(\frac{29.75-29}{6}\right)9$$

$$p85 = 83.5\left(\frac{0.75}{6}\right)9$$

$$p85 = 83.5\ (0.13)9$$

$$p85 = 83.5 + 1.17$$

$$p85 = 84.67$$