

ACTIVIDAD 1 ESTADISTICA JOSIAS GUZMAN

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Examen de Matemáticas de quinto curso

X	Lr1	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) Cuantiles

$$Q_1 = L_{R1} + \left(\frac{\frac{N}{4} - f_{ac}}{f} \right) i$$

$$Q_1 = 56.5 + \left(\frac{8.75 - 5}{8} \right) 9$$

$$Q_1 = 56.5 + \left(\frac{3.75}{8} \right) 9$$

$$Q_1 = 56.5 + (0.47) 9$$

$$Q_1 = 56.5 + 4.23$$

$$Q_1 = 60.73$$

$$Q_3 = L_{R1} + \left(\frac{26.25 - 20}{9} \right) 9$$

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

$$Q_3 = 74.5 + (0.29) 9$$

$$Q_3 = 74.5 + 6.21$$

$$Q_3 = 80.71$$

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51. Calculando.

$$P70 = L_{H1} \left(\frac{24.5 - 20}{9} \right) q$$

$$P70 = 74.5 \left(\frac{4.5}{9} \right) q$$

$$P70 = 74.5 (0.5) q$$

$$P70 = 74.5 + 4.5$$

$$P70 = 79$$

$$P85 = L_{H1} \left(\frac{29.75 - 29}{6} \right) q$$

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

$$P85 = 83.5 (0.13) q$$

$$P85 = 83.5 + 1.17$$

$$P85 = 84.67$$

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2) Riche

$$Dx = L_{R1} + \left(\frac{Ax - f_{aa}}{f} \right) q$$

$$Dx = L_{R1} + \left(\frac{3.5 - 0}{5} \right) q$$

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

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

$$Dx = 47.5 + 6.3$$

$$Dx = 53.8$$

$$Ds = 65.5 \left(\frac{17.5 - 13}{7} \right) q$$

$$Ds = 65.5 \left(\frac{4.5}{7} \right) q$$

$$Ds = 65.5 (0.64) q$$

$$Ds = 65.5 + 5.76$$

$$Ds = 71.26$$