

Nombre:

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Grado:

4.to Perito en Administración de Empresas

Curso:

Estadística

Catedrático:

Josué Estrada

Tarea: #2



Puntajes obtenidos por 25 alumnos en un examen de Estudios Sociales I de Primero Básico

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

Q1

$$Q1 = Lri + \left(\frac{N/4 - Fa}{f} \right); \quad 25/4 = 6.25$$

$$Q1 = 69.5 + \left(\frac{6.25 - 5}{9} \right) 7$$

$$Q1 = 69.5 + \left(\frac{1.25}{9} \right) 7$$

$$Q1 = 69.5 + (0.14) 7$$

$$Q1 = 69.5 + 0.98$$

$$Q1 = 70.48$$

Q2

$$Q_2 = Lr_i + \left(\frac{2N/4}{f} - f_{00} \right) i$$

$$\frac{2 \times 25}{4} = 12.50$$

$$Q_2 = 69.5 + \left(\frac{12.50 - 5}{9} \right) 7$$

$$Q_2 = 69.5 + \left(\frac{7.50}{9} \right) 7$$

$$Q_2 = 69.5 + (0.83) 7$$

$$Q_2 = 69.5 + 5.81$$

$$Q_2 = 75.31$$

Q3

$$Q_3 = Lr_i + \left(\frac{3N/4}{f} - f_{00} \right) i$$

$$Q_3 = 76.50 + \left(\frac{18.75 - 14}{9} \right) 7$$

$$Q_3 = 76.50 + \left(\frac{4.75}{9} \right) 7$$

$$Q_3 = 76.50 + (0.53) 7$$

$$Q_3 = 76.50 + 3.71$$

$$Q_3 = 80.21$$