



Calcule la media aritmética, mediana y moda de la siguiente tabla.

Puntos obtenidos por 35 alumnos en un examen de matemática financiera.

L	A	Lx_i^o	Lx_s	x_s	f	fa	fx_s
57	62	56.5	62.5	59.5	4	4	238
63	68	62.5	68.5	65.5	4	8	262
69	74	68.5	74.5	71.5	4	12	286
75	80	74.5	80.5	77.5	11	23	852.5
81	86	80.5	86.5	83.5	6	29	501
87	92	86.5	92.5	89.5	5	34	447.5
93	98	92.5	98.5	95.5	7	35	668.5

2,682.5

$$\bar{X} = \frac{2,682.5}{35} = 76.64$$

$$Md = Lx_i^o + \left(\frac{\frac{N}{2} - faa}{f} \right);$$

$$\frac{35}{2} = 17.5$$

$$Md = 74.5 + \left(\frac{17.5 - 12}{11} \right) 6$$

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$$Md = 74.5 + \left(\frac{5.5}{11} \right) 6$$

$$Md = 74.5 + (0.5) 6$$

$$Md = 74.5 + 3$$

$$Md = 77.5$$

$$MO = \left[y_i + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i \right]$$

$$MO = 11 - 4 = 7$$

$$MO = 11 - 6 = 5$$

$$MO = 74.5 + \left(\frac{7}{7+5} \right) 6$$

$$MO = 74.5 + \left(\frac{7}{12} \right) 6$$

$$MO = 74.5 + (0.58) 6$$

$$MO = 74.5 + 3.48$$

$$MO = 77.98$$

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