

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

Puntuaciones obtenidas por 35 alumnos en un examen de matemática financiera.

L_A	L_{ri}	L_{rs}	X_j	F	F_a	$F \cdot X_j$
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	4	27	501
87-92	86.5	92.5	89.5	5	32	447.5
93-98	92.5	98.5	95.5	1	33	95.5
				35	33	2126.5
						2682.5

$$\bar{X} = \frac{\sum X}{N} = \frac{2682.5}{35} = 76.64 //$$

$$M_d = L_{ri} + \left(\frac{\frac{N}{2} - F_a}{F} \right) i$$

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

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

$$74.5 + (0.5) 6$$

$$74.5 + 3 = 77.5 //$$

$$M_o = L_{ri} + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

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

$$\Delta_1 = 11 - 4 = 7$$

$$\Delta_2 = 11 - 6 = 5$$

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

$$74.5 + (0.58) 6$$

$$74.5 + 3.48 = \underline{77.98} //$$