

# Semana 8;

Calcule la media aritmetica mediana y moda de la tabla.

"Puntajes obtenidos por 35 alumnos en un examen de Matemática financiera."

LA	Li	Lrs	xs	F	Fa	Fxs
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	1	35	95.5

$$\Sigma Fxs = 2,682.5$$

Media Aritmetica:

$$\bar{x} = \frac{\Sigma Fxs}{N}$$

$$\bar{x} = \frac{2,682.5}{35}$$

$$\bar{x} = 76.64 //$$

## Mediana:

$$Md = L_{ri} + \left( \frac{\frac{N}{2} - F_{cc}}{f} \right) i$$

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

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

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

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

$$Md = 74.5 + 3$$

$$Md = \underline{77.5} //$$

## Moda:

$$Mo = L_{ri} + \left( \frac{D_1}{D_1 + D_2} \right) i$$

$$D_1 = 11 - 4 = 7$$

$$D_2 = 11 - 6 = 5$$

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

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

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

$$Mo = 74.5 + 3.48$$

$$Mo = \underline{77.98} //$$