

Puntos obtenidos por 45 alumnos en un Examen de Matemática Financiera

K	L-A	LRI	LRS	XS	F	FA	FXS
1	34 - 42	33.5	42.5	38	2	2	76
2	43 - 51	42.5	51.5	47	3	5	141
3	52 - 60	51.5	60.5	56	8	13	448
4	61 - 69	60.5	69.5	65	13	26	845
5	70 - 78	69.5	78.5	74	10	36	740
6	79 - 87	78.5	87.5	83	3	39	249
7	88 - 96	87.5	96.5	92	6	45	552

3,057

Media Aritmética

$$\bar{X} = \frac{\sum FXS}{N}$$

$$\bar{X} = \frac{3057}{45} = 67.80$$

Mediana

$$Md = L_{ri} + \left(\frac{\frac{N}{2} - F_{ac}}{f} \right) \cdot \frac{N}{2} = \frac{45}{2} = 22.5$$

$$Md = 60.5 + \left(\frac{22.5 - 13}{13} \right) \cdot 9$$

$$Md = 60.5 + \left(\frac{9.5}{13} \right) \cdot 9$$

$$Md = 60.5 + (0.73) \cdot 9$$

$$Md = 60.5 + 6.57$$

$$Md = 67.07$$

MODA

$$Mo = L_{ri} + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) \cdot i \quad \Delta_1 = 13 - 8 = 5 \quad \Delta_2 = 13 - 10 = 3$$

$$Mo = 60.5 + \left(\frac{5}{5+3} \right) \cdot 9 \quad Mo = 60.5 + 5.67$$

$$Mo = 60.5 + \left(\frac{5}{8} \right) \cdot 9 \quad Mo = 66.77$$

$$Mo = 60.5 + (0.63) \cdot 9$$