



INSTITUTO PRIVADO
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GRADO:

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CURSO:

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CATEDRATICO:

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TAREA #1 DEL TERCER BLOQUE

Tabla de distribución de frecuencias de Valores Agrupados.

K	L - A	L _{ij}	l _{vs}	x _s	f	f ₀	f _{x_s}
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

$$\sum f \cdot x_s = 3051$$

$$\tilde{X} = \frac{\sum f \cdot x_s}{N} \quad \tilde{X} = \frac{3051}{45} = 67.8$$

$$Md = L_{i^0} + \left(\frac{\frac{N}{2} - f_{00}}{f} \right) i \quad \frac{45}{2} = 22.5$$

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

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

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

$$Md = 60.5 + 6.57$$

$$Md = 67.07$$

$$M_0 = L_{i^0} + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

$$\Delta_1 = 13 - 8 = 5$$

$$\Delta_2 = 13 - 10 = 3$$

$$M_0 = 60.5 + \left(\frac{5}{5+3} \right) 9$$

$$M_0 = 60.5 + 5.67$$

$$M_0 = 60.5 + \left(\frac{5}{8} \right) 9$$

$$M_0 = 66.17$$

$$M_0 = 60.5 + (0.63) 9$$

P Puntajes obtenidos por 45 alumnos en un examen de matemáticas financieras

34	55	38	64	66	69	76	78	85	89
36	56	60	65	67	70	76	78	87	89
45	56	60	65	67	74	77	78	88	90
45	56	62	66	67	74	77	85	88	90
48	57	63	66	68					

$$k = 1 + 3.322 \log(n)$$

$$k = 1 + 3.322 \log(45)$$

$$k = 1 + 3.322 (1.65321)$$

$$k = 1 + 5.49$$

$$k = 6.49$$

$$R = D_{ma} - D_{me} + 1$$

$$R = 90 - 34 + 1$$

$$R = 56 + 1$$

$$R = 57$$

$$i = \frac{R}{k} \quad i = \frac{57}{6.49} \quad i = 8.78 \quad i = 9$$