

Semana 19

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

$$K = 1 + 3.322 \log(1.65321)$$

$$K = 1 + 5.49$$

$$K = 6.49$$

$$R = 90 - 34 + 1$$

$$R = 56 + 1$$

$$R = 57$$

$$I = \frac{R}{K} = \frac{57}{6.49} = 8.78 \quad I = 9$$

Puntajes obtenidos por 45 alumnos en un examen de matemáticas financiera.

L-A	LRI	LRS	X _S	F	F _a	F _{xS}
34 - 42	33.5	42.5	38	2	2	76
43 - 51	42.5	51.5	47	3	5	141
52 - 60	51.5	60.5	56	8	13	448
61 - 69	60.5	69.5	65	13	26	845
70 - 78	69.5	78.5	74	10	36	740
79 - 87	78.5	87.5	83	3	39	249
88 - 96	87.5	96.5	92	6	45	552
				45	$\Sigma F \times S = 3051$	

Media aritmetica

$$\bar{x} = \frac{\Sigma F \times S}{N} \quad \bar{X} = 3,051 = 67.80$$

Mediana

$$Md = LRI + \left(\frac{\frac{N}{2} - F_{a0}}{f} \right) i \quad 45/2 = 22.5$$

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

$$Md = 60.5 + \left(\frac{0.5}{1.5} \right) 9$$

$$Md = 60.5 + 0.57$$

$$Md = 61.07$$

Moda

$$Mo = LRI + \left(\frac{A1}{A1 + A2} \right) i$$

$$A1 = 13 - 8 = 5$$

$$A2 = 13 - 10 = 3$$

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

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

$$Mo = 60.5 + 5.625$$

$$Mo = 66.125$$