

Semana 8

Calcular la media, el promedio y la mediana de la muestra de la siguiente tabla, completa los espacios que faltan.

Puntos Dedicados por 35 alumnos en un examen

LA	Lri	Lrs	Xs	F	FA	Fxs
59-62	60.5	62.5	59.5	4	4	238
63-68	65.5	68.5	65.5	4	8	262
69-74	71.5	74.5	71.5	11	19	786.5
75-80	77.5	80.5	77.5	6	25	465
81-90	85.5	90.5	85.5	6	31	513
91-92	91.5	92.5	91.5	1	32	91.5
93-98	95.5	98.5	95.5	1	33	95.5
				35		2168.5
						2168.5

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

$$\bar{X} = \frac{2168.5}{35}$$

$$= 62.5$$

$$Md = Lri + \left(\frac{\frac{N}{2} - F}{f} \right) i$$

$$35/2 = 17.5$$

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

$$Md = 74.5 + \left(\frac{6.5}{11} \right) 6$$

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

$$Md = 74.5 + 3$$

$$Md = 77.5$$

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

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

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

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

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

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

$$MO = 74.5 + 0.10$$

$$MO = 74.6$$