INSTITUTO PRIVADO RAFAEL ARÉVALO MARTÍNEZ

IPRAM

Litzy Rosita De León Ramírez

4to Perito en Admón. de Empresas

Catedra: Estadística

Catedrático: Josué Estrada

TAREA No.8

Ciclo Escolar:

2,021

Semana 8

Calcule la media aritmetica mediana y modo de la siguiente tabla. Complete las columnas que hacen falta.

Punteos obtenidos por 35 alumnos en un examen de Matemática Financiera.

LA	Lvi	Lvs	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	96.5	1	35	95.5
				35		2,682.5

$$\tilde{X} = \frac{\Sigma fxs}{N}$$

$$\tilde{X} = \frac{2,682.5}{35} = 76.64$$

$$Md = Lvi + \left(\frac{\frac{n}{2} - faa}{f}\right) i$$

$35/2 = 17.5$

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

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

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

$$Md = 74.5 + 3$$

$$Md = 77.5$$

$$Mo = Lvi + \left(\frac{\Delta 1}{\Delta 1 + \Delta 2}\right) i$$

$\Delta 1 = 11 - 4 = 7$
$\Delta 2 = 11 - 6 = 5$

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

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

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

$$Mo = 74.5 + 0.10$$

$$Mo = 74.6$$

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

$35 / 2 = 18$

$$Md = 74.5 + \left(\frac{18 - 12}{11}\right) 6$$

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

$$Md = 74.5 + (0.55)\,6$$

$$Md = 74.5 + 3.3$$

$$Md = 77.5$$

$$\tilde{X} = \frac{\sum fxs}{N}$$

$$\tilde{X} = \frac{2684}{35} = 76.69$$