



INSTITUTO IPRAM

ROSSY MARYORITH LÓPEZ

ACABAL

TAREA#8

PROFE: JOSÚE

5TO ADMÓN

ESTADISTICA

2021

TAREA #8

L-A	F	Xs	fxs	dl = xs - x̄	f d	(xs - x̄) ²	f(xs - x̄) ²	(xs - x̄) ³	f(xs - x̄) ³	(xs - x̄) ⁴	f(xs - x̄) ⁴	(xs - x̄) ⁵	f(xs - x̄) ⁵	fca
40-51	1	45.5	45.5	-28.79	-28.79	794.62	794.62	-22,407.12	-22,407.12	637,570.70	637,570.70	-77,302,269.25	-77,302,269.25	1
52-63	4	57.5	230	-16.79	-64.76	262.72	1,048.48	-4,243.66	-16,974.64	63,704.45	274,819.4	-7,712,332.64	-4,449,326.8	5
64-75	22	69.5	1,529	-4.79	-92.78	17.56	386.32	-73.54	-1,678.32	308.27	6,787.91	-7,297.43	-28,472.44	22
76-87	11	81.5	896.5	7.81	85.91	61.00	671	476.38	5,240.78	3,720.52	40,925.72	24,057.29	1379,630.19	32
88-99	5	93.5	467.5	19.81	99.05	392.44	796.22	7,774.70	38,870.8	754,006.84	770,030.75	3,050,860.69	75,254,303.45	43
	43		3,768.5	20.9	-0.26		4,862.68	-3,267.98	7,724,067.67	-7,024,754.73				
$\bar{x} = \frac{3,768.5}{43} = 73.69$														

Coeficientes

$$B1 = \frac{9,710,079.27}{1,445,963.73} = 6.72$$

$$B2 = \frac{1,724,067.67}{1,445,963.73} = 1.19$$

Media Aritmética

$$\bar{x} = \frac{\sum fxs}{N} = \frac{3,768.5}{43} = 73.69$$

Mediana

$$\frac{N+1}{2} = \frac{44}{2} = 22$$

Coefficientes

$$63.5 + \frac{(22-5)}{12}$$

$$63.5 + \frac{17}{12}$$

$$63.5 + (0.77)12$$

$$63.5 + 9.24 = 72.74$$

Desviación media

$$\frac{370.09}{43} = 8.61$$

Platicurtica

Desviación Estándar

$$\sqrt{\frac{4,862.40}{43}} = 113.08$$

$$\sqrt{113.08} = 5 = 10.63$$

$$\frac{10.63}{73.69} \times 100 = 14.43$$

La media es bastante representativa.

Momentos k:

$$Mk^2 = \frac{4,862.40}{43} = 113.08$$

$$Mk^3 = \frac{3,776.70}{43} = 72.47$$

$$Mk^4 = \frac{1,724,067.67}{43} = 40,094.60$$

$$Mk^5 = \frac{-7,024,754.73}{43} = -163,366.39$$

$$Sk = \frac{3(\bar{x} - Md)}{5} = \frac{73.69 - 72.74}{10.63} = 0.27 \quad \text{Asimetría positiva}$$

Rosy López
sto Admón.