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Catedrático: Josué Estrada

Curso: Estadística

Grado: 5to Administración

IPRAM

2021

Luis Alva 5to Admon Tarea #8

X	LR1	LR5	X5	F	F ²	F X5	(X-X) ²	Fd	(X-X) ²
40-51	39.5	51.5	45.5	1	1	45.5	28.18	28.18	794.11
52-63	51.5	63.5	57.5	4	5	230	16.18	64.72	261.79
64-75	63.5	75.5	69.5	22	27	1529	4.18	91.96	17.47
76-87	75.5	87.5	81.5	11	38	896.5	-2.82	-86.02	61.15
88-99	87.5	99.5	93.5	5	43	467.5	-19.82	-99.1	392.83
				5	43	467.5	20.9	0.29	

$F(X-X)^2$	$(X-X)^3$	$F(X-X)^3$	$(X-X)^4$	$F(X-X)^4$	$(X-X)^5$	$F(X-X)^5$
294.11	22378.08	22378.08	630614.50	630614.50	17779716.71	17779716.71
1047.16	4235.81	16443.24	68535.27	342676.35	11089000.51	4434602.04
384.34	73.08	1606.66	305.28	6716.16	2545.03	56036.66
672.63	-478.21	-5260.31	3839.62	41135.82	-29245.29	-321681.69
1964.15	-7785.9	-38929.25	15437.29	71586.45	-3658568.94	-15292846.85
4882.41		-3261.98		142727.28		

$$M5 = \frac{6,647,849.87}{43} = 154601.16$$

$$Sk = 3 \left(\frac{73.68 - 66}{10.63} \right)$$

$$3 \left(\frac{7.68}{10.63} \right)$$

$$3(0.72)$$

R/ 2.16 Distribucion
Asimetrica segada
a la derecha.

Desviacion Media

$$Dm = \frac{-0.26}{43} = 0.006$$

Desviacion Estandar

$$S \sqrt{\frac{4862.41}{43}} \quad S \sqrt{113.08} = 10.63$$

R/ 14% la media es
bastante
Representativa

$$V = \frac{s}{x} \cdot 100$$

$$V = \frac{10.63}{73.68} \cdot 100 \quad V = 0.14 \cdot 100$$

Momentos

$$M2 = \frac{4862.41}{43} = 113.08$$

$$M3 = \frac{3261.98}{43} = -75.86$$

$$M4 = \frac{1792,729.28}{43} = 41,691.38$$

Media Aritmética

$$\frac{3168.5}{43} = 73.68$$

Mediana

$$\frac{43}{2} = 21.5$$

$$63.5 + \left(\frac{21.5 - 27}{22} \right) 10$$

$$Lr1 = 63.5$$

$$63.5 + \left(\frac{-55}{22} \right) 10$$

$$N12 = 21.5$$

$$F_{41} = 27$$

$$63.5 + (-0.25) 10$$

$$F = 22$$

$$63.5 - 2.5$$

$$I = 12$$

|| 66

Coefficientes

$$B1 = \frac{-75.86^2}{113.083} = \frac{5754.74}{1.445763.73} = 0.004$$

$$B2 = \frac{41691.38}{113.08^2} = \frac{41691.38}{12787.08} = 3.26$$

|| 3.26 la curva es mesocúrtica.

