

Instituto Privado Rafael Arevalo Martinez

Nombre

Dulce Domitila
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Grado

Quinto ADMON

Curso

Estadística II

Catedrático:

Josue Estrada

Tabla agrupada en intervalos con los Puntos Obtenidos en
Legislación Fiscal.

K	X	F	X ²	F · X ²	f _o (X _s - $\bar{x}$)	(X _s - $\bar{x}$) ²	f _o (X _s - $\bar{x}$) ²	(X _s - $\bar{x}$) ³
1	61-70	565.5	3275	17.5	87.5	306.25	1531.25	5,359.38
2	71-80	1075.5	755	7.5	75	562.5	562.50	421.88
3	81-90	1585.5	2825	2.5	37.5	6.25	93.75	15.63
4	91-100	1095.5	955	12.5	12.5	156.25	1562.50	1953.13
			3320		325		3,753	

f _o (X _s - $\bar{x}$) ³	(X _s - $\bar{x}$) ⁴	f _o (X _s - $\bar{x}$) ⁴	(X _s - $\bar{x}$) ⁵	f _o (X _s - $\bar{x}$) ⁵
26,796.90	93,789.06	468,945.30	1,641,308.59	8,206,542.95
4,218.80	3,164.06	31,640.60	23,730.47	237,304.70
234.45	39.06	585.90	97.66	1,464.90
19,531.30	24,414.06	244,140.60	305,175.78	3,051,757.80
50,781.45		745,312.40		11,497,070.35

Ejercicio #05: Calcule momentos de Orden k=2 hasta k=5 (agregar columnas necesarias)

Media A.

$$\bar{x} = \frac{3320}{40}$$

$$\bar{x} = \underline{83}$$

Desviación Media

$$DM = \frac{\sum f \cdot |d|}{N}$$

$$DM = \frac{325}{40}$$

$$DM = \underline{8.13}$$

Desviación Estandar

$$S = \sqrt{\frac{\sum f \cdot |d|^2}{N}}$$

$$S = \sqrt{\frac{3753}{40}}$$

$$S = \sqrt{93.83}$$

$$S = \underline{9.69}$$

Varianza.

$$V = \frac{S}{\bar{x}} \cdot 100$$

$$V = \frac{9.69}{83}$$

$$V = 0.12 \cdot 100$$

$$V = 12\%$$

$$M_2 = \frac{3753}{40}$$

$$M_2 = \underline{93.83}$$

$$M_3 = \frac{50781.45}{45}$$

$$M_3 = \underline{1,269.54}$$

$$M_4 = \frac{745,312.40}{40}$$

$$m_4 = 18,632.81$$

$$M_5 = \frac{11,497,070.35}{40}$$

$$M_5 = 287,426.76$$