



INSTITUTO PRIVADO IPRAM

ROSSY MARYORITH LÓPEZ

ACABAL

5TO ADMÓN

PROF: JOSUE

Estadística

TAREA: #3

2021

Calcule la $\bar{x}$ y DM de las siguientes tablas

#3

Edad de alumnos 37

X	f	fx	d	$ x - \bar{x} $	f d	$(x - \bar{x})^2$	$(x - \bar{x})^3$
15	4	60	1.51				
16	10	160	0.81		7.24	3.27	13.08
17	14	238	0.19		8.1	0.66	6.6
18	7	126	1.79		2.66	7.07	98.98
19	2	38	2.79		8.33	69.58	485.66
	37	622			4.38	79.78	38.36
					30.71		

Media Aritmética

$$\bar{x} = \frac{622}{37} = R// 18.81$$

Desviación Media

$$DM = \frac{30.71}{37} = R// 0.83$$

Desviación Estándar.

$$S = \sqrt{\frac{642.68}{37}}$$

$$S = \sqrt{17.37} \quad R// 4.17$$

$$V = \frac{S}{\bar{x}} = \frac{4.17}{18.81} \cdot 100$$

$$V = \frac{4.17}{18.81} \cdot 100$$

$$V = 0.25 \cdot 100$$

$$V = 25\%$$

Rossy López

5to admón

Puntos obtenidos en legislación fiscal

#3

L - A	xs	f	fxs	$ d x - \bar{x} $	f d	$(xs - \bar{x})^2$	$f(xs - \bar{x})^2$
61-70	65.5	5	327.5	17.5	87.5	306.25	1,531.25
71-80	75.5	10	755	7.5	75	56.25	562.5
81-90	85.5	15	1,282.5	2.5	37.5	6.25	93.75
91-100	95.5	10	955	12.5	125	156.25	1,562.5
		40	3,320		325		3,750

Media Aritmética

$$\bar{x} = \frac{3,320}{40} = R // 83$$

Desviación Media

$$DM = \frac{325}{40} = R // 8.13$$

Desviación Estandar

$$S = \sqrt{\frac{3750}{40}} = 93.75$$

$$s = \sqrt{93.75} = 9.68$$

$$V = \frac{s}{\bar{x}} = \frac{9.68}{83} = 0.12$$

$$V = 0.12 \cdot 100$$

V = 12% La media es bastante representativa.