

ACTIVIDAD # 3:

Tarea #3 Melvin Samayoa Sto. Admón. Fecha / Date: 14/05/2021

Calcular la $\bar{x}$, s y v de las siguientes tablas.

X	f	fx	$ d x - \bar{x} $	fd	$ x - \bar{x} ^2$	$ x - \bar{x} ^3$
15	4	60	1.81	-7.24	3.27	-13.08
16	10	160	0.81	8.1	0.66	6.6
17	14	238	0.19	2.66	2.07	98.98
18	7	126	1.19	8.33	69.38	485.66
19	2	38	2.19	4.38	19.18	38.36

Media Aritmética

$$\bar{x} = \frac{622}{37} = 16.81$$

Desviación Media

$$Dm = \frac{30.71}{37} = 0.83$$

Desviación Estándar

$$s = \sqrt{\frac{42.68}{37}} = 1.07$$

$$s = 1.07$$

$v = \frac{s}{\bar{x}} = \frac{1.07}{16.81}$

$$v = \frac{4.17}{16.81} / 100$$

$$v = 0.25 / 100$$

$$v = 0.25\%$$

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Puntajes obtenidos en legislación fiscal.

X	f	Xs	fXs	d = xs - x	F(d)	(xs - x) ²	f(xs - x) ²
61-70	5	65.5	327.5	17.5	87.5	306.25	1537.25
71-80	10	75.5	755.5	7.5	77.5	56.25	562.5
81-90	15	85.5	1282.5	2.5	37.5	6.25	93.75
91-100	10	95.5	955	12.5	12.5	156.25	1562.5
			3320		525		3750

$$\bar{X} = \frac{3320}{40} = 83$$

$$Dm = \frac{325}{40} = 8.13$$

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

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

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

$$V = 0.12 \quad /100$$

V = 12% La media es bastante representativa.

MELVIN SAMAYOA.....