

Alejandra Mendoza

Tarea No. 3

Calcule la $\bar{X}$, S y V de las siguiente tabla

X	f	Fx	$ d = X - \bar{X} $	$(X - \bar{X})^2$	$f(X - \bar{X})^2$
15	4	60	1.81	3.28	13.12
16	10	160	0.81	0.66	6.6
17	14	238	0.19	0.04	0.56
18	7	126	1.19	1.42	9.94
19	2	38	2.19	4.80	9.6
37		622			39.82

$$\bar{X} = \frac{\sum Fx}{N}$$

$$\bar{X} = \frac{622}{37}$$

$$\bar{X} = 16.81$$

$$S = \sqrt{\frac{39.82}{37}}$$

$$S = \sqrt{1.08}$$

$$S = 1.04$$

$$V = \frac{1.04}{16.81} \cdot 100$$

$$V = 0.06 \cdot 100$$

$$V = 6\%$$

K	L.A	Xs	F	Fxs	d1 = X - $\bar{X}$	(Xs - $\bar{X}$) ²	F(Xs - $\bar{X}$) ²
1	61 70	65.5	5	327.5	17.5	306.25	1,531.25
2	71 80	75.5	10	755	7.5	56.25	562.5
3	81 90	85.5	15	1,282.5	2.5	6.25	93.75
4	91 100	95.5	10	955	12.5	156.25	1,562.25
			40	3,320			
						3,749.75	

$$\bar{X} = \frac{\sum Fx}{N} \quad \bar{X} = \frac{3,320}{40} \quad \bar{X} = 83$$

$$S = \sqrt{\frac{3,749.75}{40}} \quad S = \sqrt{93.74} \quad S = 9.68$$

$$V = \frac{9.68}{83} \cdot 100 \quad V = 0.12 \cdot 100 \quad V = 12\%$$

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