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$$s = \sqrt{\frac{\sum (x - \bar{x})^2}{N}}$$

$$s = \sqrt{\frac{\sum f(x - \bar{x})^2}{N}}$$

Alvaro Leonel Gramajo Guillén 5to Admon Tarea 3

X	f	fX	W = x - 11	f d	(x - $\bar{x}$) ²	f(x - $\bar{x}$) ²
15	4	60	7.67	7.24	3.28	13.72
16	10	160	0.87	8.7	0.66	6.6
17	14	238	0.79	2.66	0.04	0.56
18	7	126	7.19	8.33	7.42	9.94
19	2	38	2.79	4.38	4.80	9.6
	37	622		30.71		39.82

$\bar{x} = \frac{622}{37} = 16.81$
 $DM = \frac{30.71}{37} = 0.83$

$s = \sqrt{\frac{39.82}{37}} = 1.04$

h	L	A	x_i	F	$F \cdot x_i$	$ d_i = x_i - \bar{x} $	$F d_i $	$(x_i - \bar{x})^2$	$F(x_i - \bar{x})^2$
1	67	-70	69.5	5	347.5	7.5	37.5	56.25	281.25
2	71	-80	75.5	10	755	7.5	75	56.25	562.5
3	81	-90	85.5	15	1282.5	2.5	37.5	6.25	93.75
4	91	-100	95.5	10	955	7.5	75	56.25	562.5
				40	3320				1500

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

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

$$S = \sqrt{\frac{3350}{40}} = \sqrt{83.75} \quad s = 9.15$$

$$V = \frac{s}{\bar{x}} \times 100 \quad \frac{9.15}{83} = 0.11 \times 100 = 12.9\%$$

R/ la media es bastante representativa