

Actividad #6

Punteos obtenidos por 30 alumnos en una prueba de hábitos de estudio.

X	f	xs	fxs	$ d = xs - \bar{x} $	f d	$(xs - \bar{x})^2$	$f(xs - \bar{x})^2$
45-49	1	47	47	28.33	28.33	802.59	802.59
50-54	1	52	52	23.33	23.33	544.29	544.29
55-59	1	57	57	18.33	18.33	335.99	335.99
60-64	3	62	186	13.33	39.99	177.69	533.07
65-69	2	67	134	8.33	16.66	69.39	138.78
70-74	5	72	360	3.33	16.65	11.09	55.45
75-79	5	77	385	1.67	8.35	2.79	13.95
80-84	4	82	328	6.67	26.68	44.49	177.96
85-89	5	87	435	11.67	58.35	136.19	680.95
90-94	3	92	276	16.67	50.01	277.89	833.67
			2260		286.68		4116.70

$$\bar{X} = \frac{2260}{30} = 75.33$$

$$DM = \frac{286.68}{30} = 9.56$$

$$S = \sqrt{\frac{4116.70}{30}}$$

$$S = \sqrt{137.22}$$

$$S = 11.71$$

$$V = \frac{11.71}{75.33} \times 100 = 15.54\%$$