

Standard Deviation Layout

Calculate the mean and standard deviation for 2, 5, 7, 7, 8.

(It is not necessary to calculate the squares just write like this)

x	x^2
2	2^2
5	5^2
7	7^2
7	7^2
8	8^2
$\sum x = \mathbf{29}$	$\sum x^2 = \mathbf{191}$

$$\bar{x} = \frac{29}{5} = \underline{\underline{5.8}}$$

$$\sqrt{\frac{\sum x^2 - (\sum x)^2 / n}{n - 1}}$$

$$= \sqrt{\frac{\mathbf{191} - \mathbf{29}^2 / 5}{4}}$$

$$= \sqrt{5.7}$$

$$= \underline{\underline{2.39}}$$