Variance

$$\boldsymbol{Variance}\ (\boldsymbol{s^2}) = \frac{\sum(\boldsymbol{x_i} - \boldsymbol{\overline{x}})^2}{\boldsymbol{n-1}}$$

$x_i = a\ number\ in\ the\ group$

$\overline{x} = mean\ (average)$

$n = quantity\ of\ numbers\ in\ the\ group$

Example:

$x_1 = 15$

$x_2 = 13$

$x_3 = 17$

$x_4 = 7$

$$\overline{x} = \frac{x_1 + x_2 + x_3 + x_4}{4}$$

$$= \frac{15 + 13 + 17 + 7}{4}$$

$$= \frac{52}{4}$$

$$= 13$$

$$s^2 = \frac{\sum(x_i - \overline{x})^2}{n-1}$$

$$= \frac{(15-13)^2 + (13-13)^2 + (17-13)^2 + (7-13)^2}{4-1}$$

$$= \frac{2^2 + 0^2 + 4^2 + -6^2}{3}$$

$$= \frac{4 + 0 + 16 + 36}{3}$$

$$= \frac{56}{3}$$

$$= 18.67$$