

# Expression for the Sample Standard Deviation

## Understanding and computing

- **Sample standard deviation:** Square root of the average squared deviation score based on degrees of freedom  $n - 1$

$$\frac{\sum (Y_i - m)^2}{n - 1}$$

data value

deviation from mean

squared deviation from mean

sum of squared deviations from mean

average of squared deviations from mean based on  $df$

square root of average of squared deviations based on  $df$

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$$s = \sqrt{\frac{\sum(Y_i - m)^2}{n - 1}}$$

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