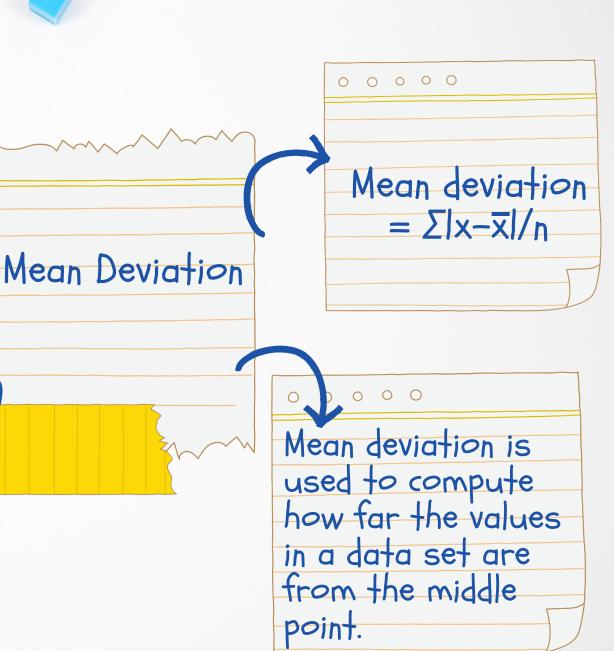


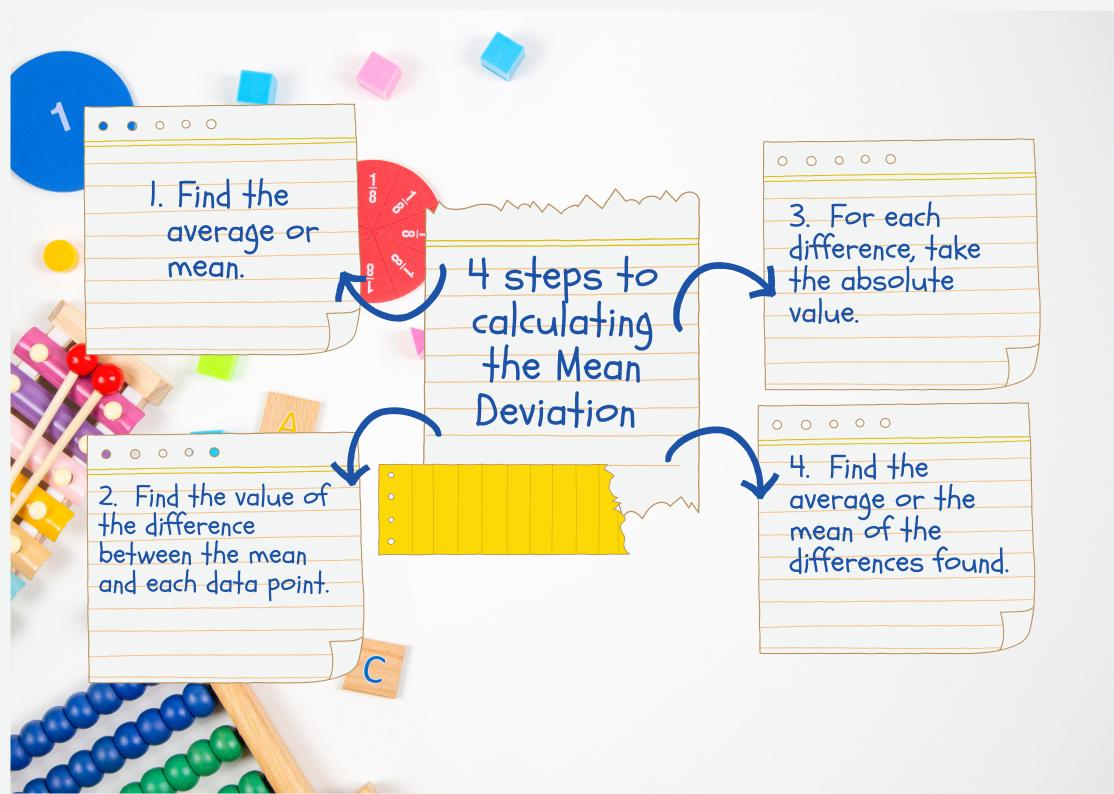
The Mean Deviation for Ungrouped data can be calculated step 81 wise by dividing the Sum of Squares by the number of data points in each step.

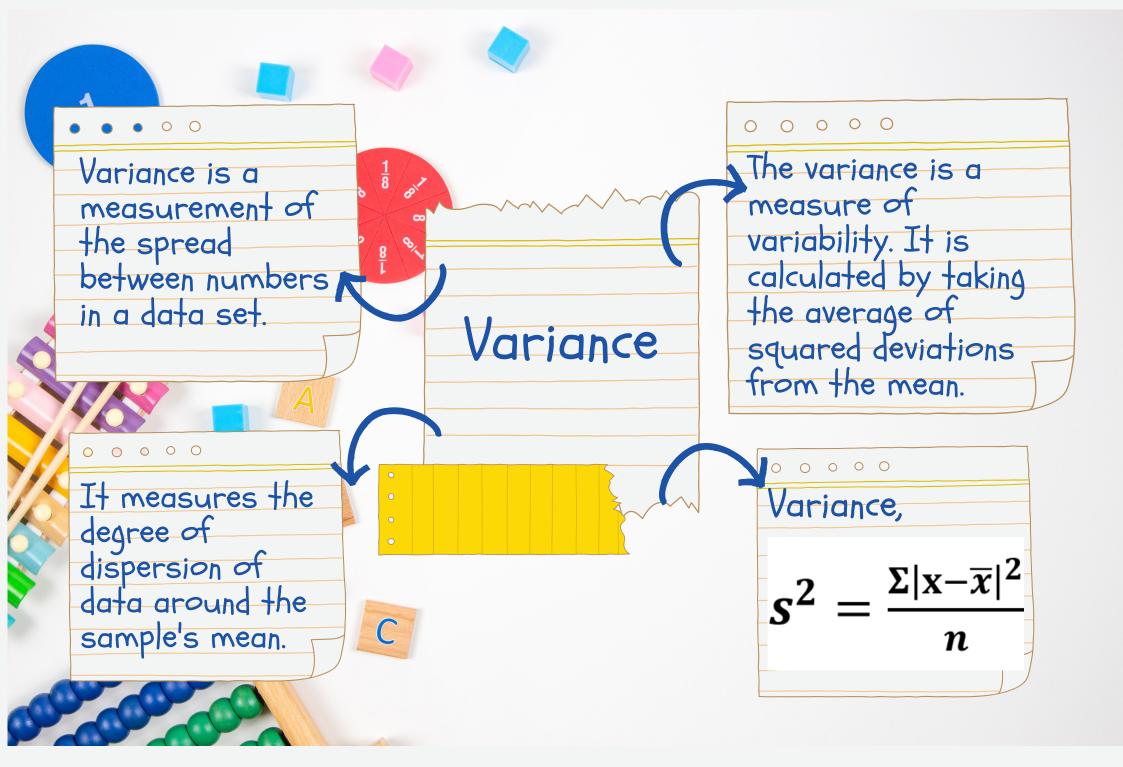
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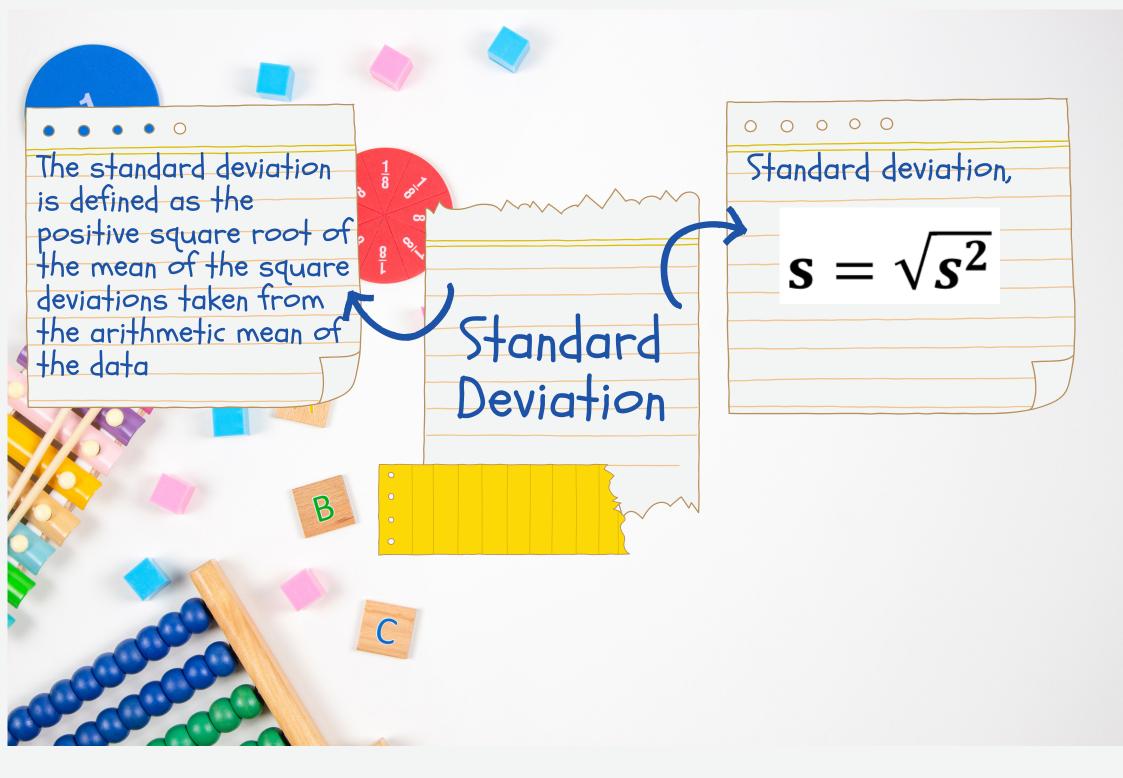
0 0 0 0 In different words, the mean deviation is used to calculate the average of the absolute deviations of the data from the

central point.









x $ x - \bar{x} $ 11 - 3.182 = -2.182 = 2.18211 - 3.182 = -2.182 = 2.18222 - 3.182 = -1.182 = 1.18222 - 3.182 = -1.182 = 1.18222 - 3.182 = -1.182 = 1.18222 - 3.182 = -1.182 = 1.18233 - 3.182 = -0.182 = 0.18233 - 3.182 = -0.182 = 0.18255 - 3.182 = 1.81866 - 3.182 = 2.81888 - 3.182 = 4.818 $\Sigma = 18.91$	$ x - \bar{x} ^2$ $(2.182)^2 = 4.761$ $(2.182)^2 = 4.761$ $(1.182)^2 = 1.397$ $(1.182)^2 = 1.397$ $(1.182)^2 = 1.397$ $(1.182)^2 = 1.397$ $(0.182)^2 = 0.033$ $(0.182)^2 = 0.033$ $(1.818)^2 = 3.305$ $(2.818)^2 = 7.941$ $(4.818)^2 = 23.213$ $\Sigma = 49.635$	Mean Deviation $\sum x - \bar{x} = \frac{18.91}{11} = 1.719$ Variance $s^2 = \frac{\sum x - \bar{x} ^2}{n} = \frac{49.635}{11} = 4.512$ Standard Deviation $s = \sqrt{s^2} = \sqrt{4.512} = 2.124$