The standard deviation of set of elements is the average difference between every element of a set.

If we are given the mean of a set, we can calculate the standard deviation by subtracting the mean from every element squaring the result, adding every element, diving by the number of elements and then taking the square root of the final <u>element</u>.

of the final element.
$$SD = \sqrt{\frac{\Sigma(x+\overline{x})^2}{n}}$$