CALCULATING STANDARD DEVIATION (Ojakian – Modified from online document)

**Mean:\_\_\_\_\_\_\_\_\_\_\_\_\_  *n*:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Test Score

(x)

**Difference from the mean**

**(x – x)**

**(Difference from the mean)**

**(x – x)2**

**Sum of (Difference from the mean)**

**∑(x – x)**

Sum of (Difference from the Mean) divided by degrees of freedom (*n – 1 )*:\_\_\_\_\_\_\_ 🡪 **This is called sample variance.**

$$\frac{\sum\_{}^{}(x-\overbar{x})^{2}}{(n-1)}=$$

# Sample Standard deviation = square root of what you just calculated (sample variance).

# Sample Standard deviation = $\sqrt{\frac{\sum\_{}^{}(x-\overbar{x})^{2}}{(n-1)}}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 ***For the population versions just change the “n-1” to an “n”.***