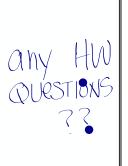
<u>Today</u> Continue with 1-variable Statistics

<u>Fri & Mon</u> Review for Final Exam Return Textbook on Monday

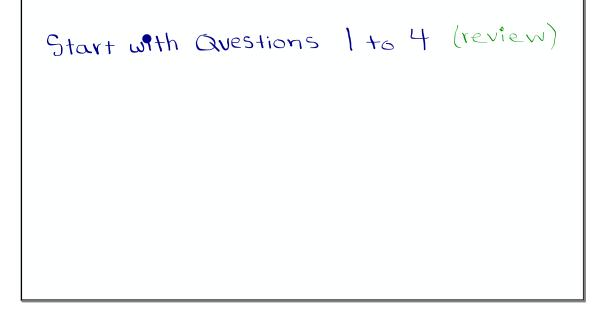
Tues and Wed Final Exam

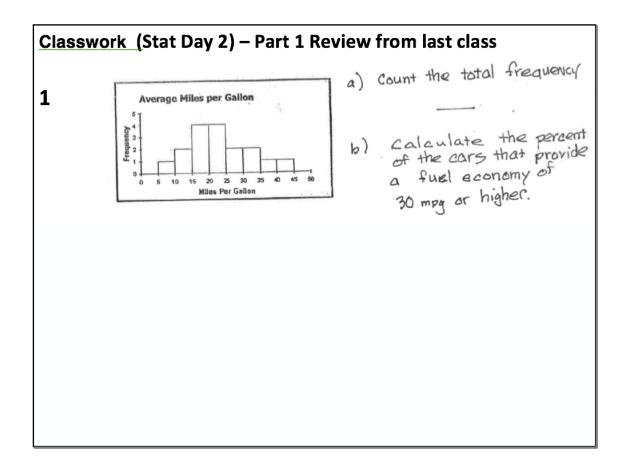


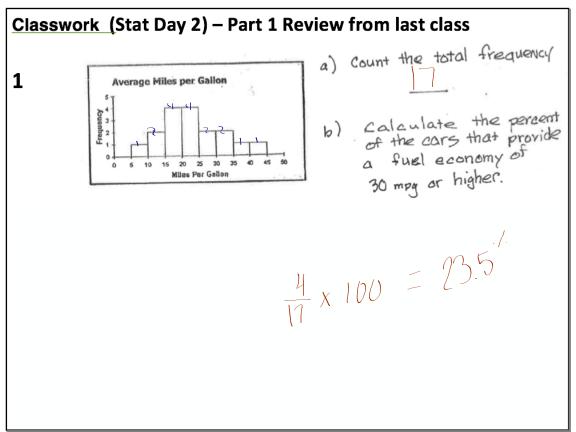
Pull out you your HW

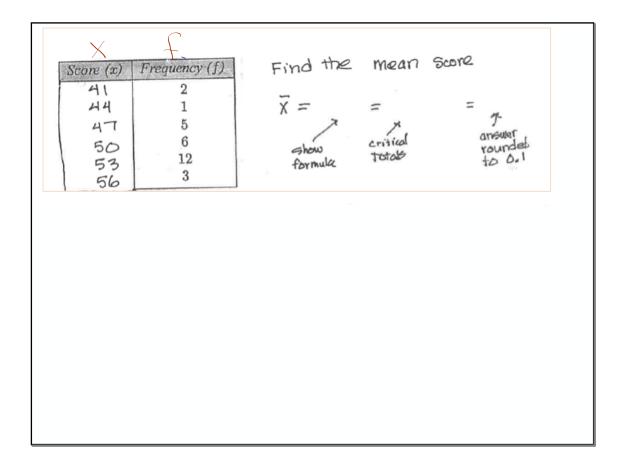
## **Class Notes provided**

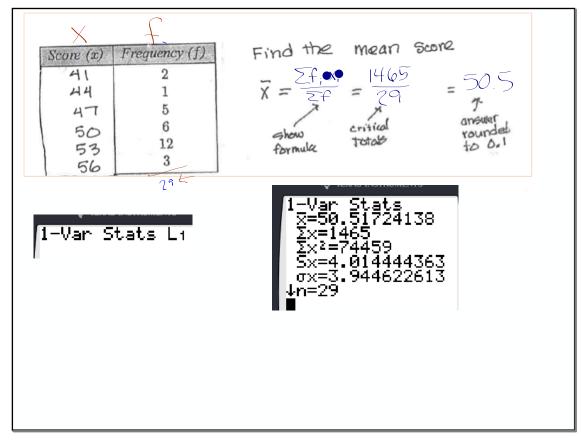
(your notes returned tomorrow)

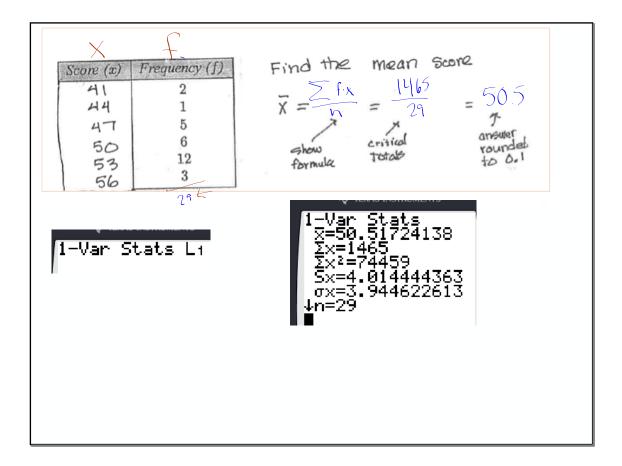


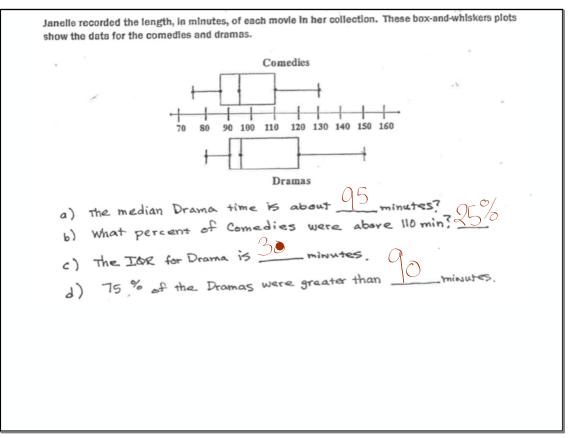


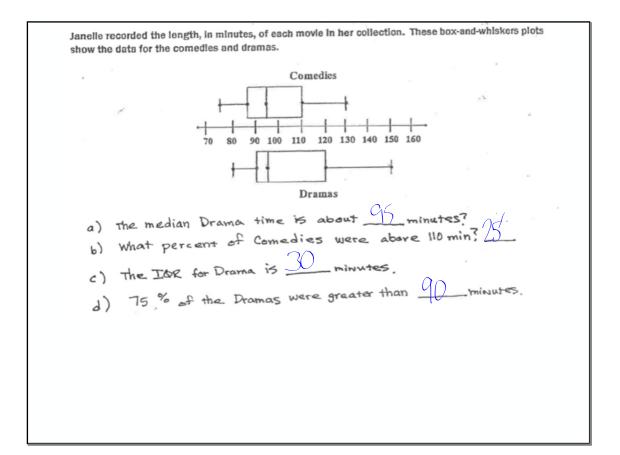


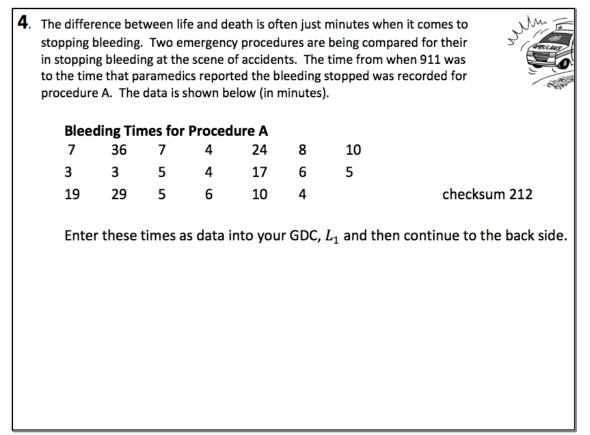


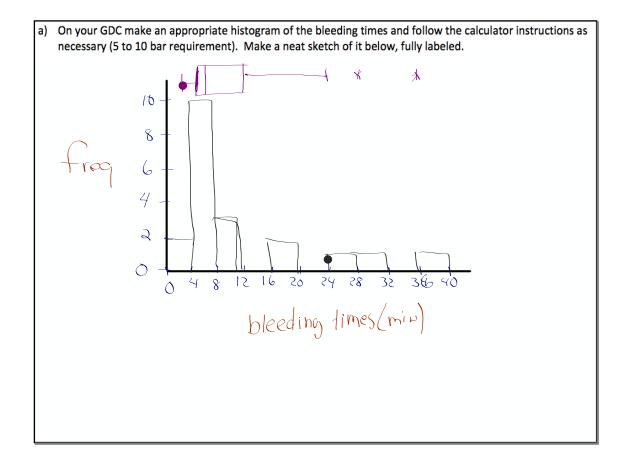




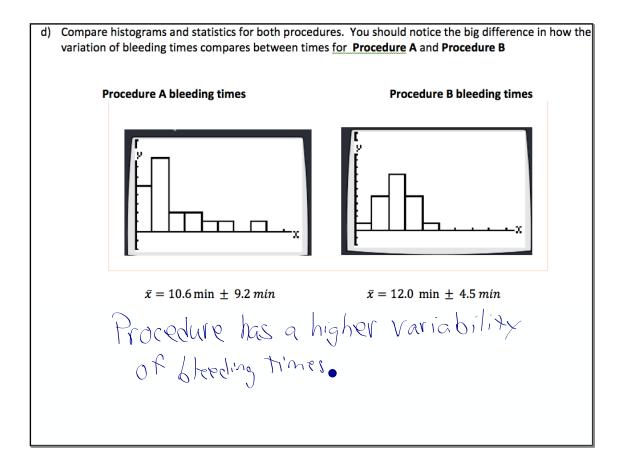


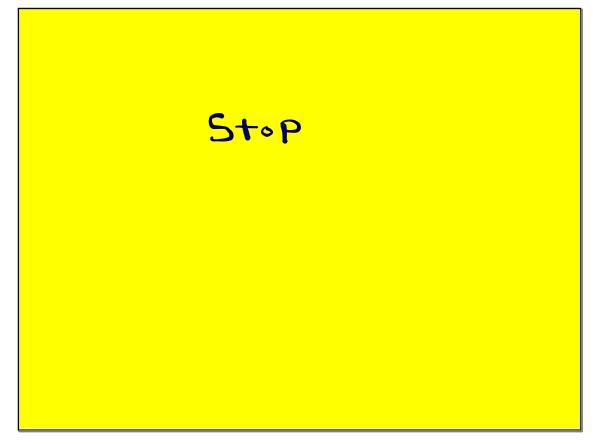






b) Calculate the mean and median bleeding times and include units. Mean <u>10.6 mi</u>N Median <u>6.5 min</u> Given the distribution you see in the histogram, which of these two is more reliable, if any? (P.5 min is a better represtation) of typical blending times because of the skewness of the distribution. c) Determine which times are outliers, if any.

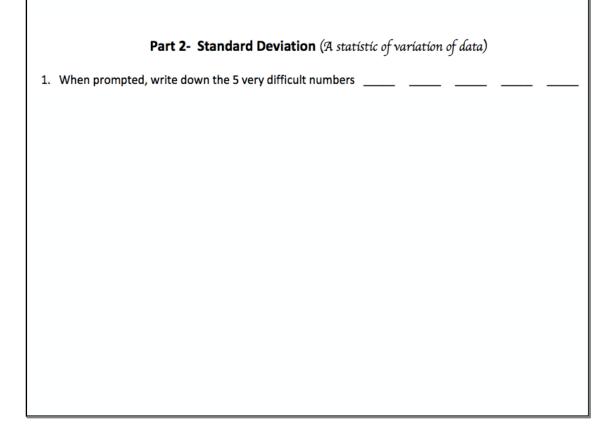


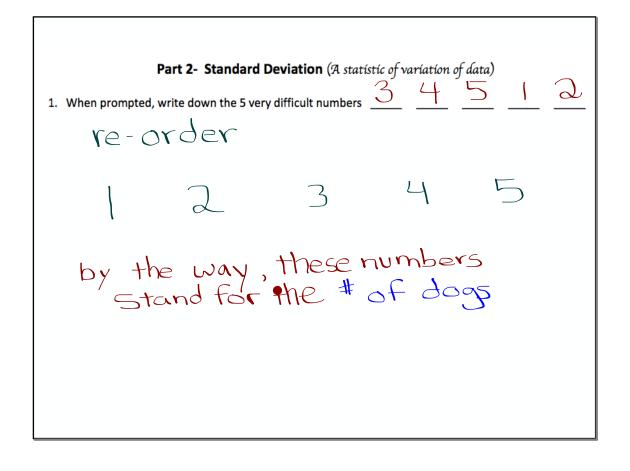


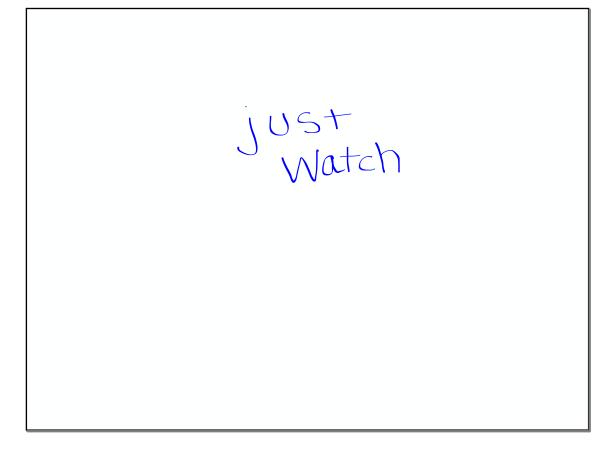
Goal

Calculate and use the Standard Deviation to measure Variation in a data set.

follow the powerpoint and fill in your notes

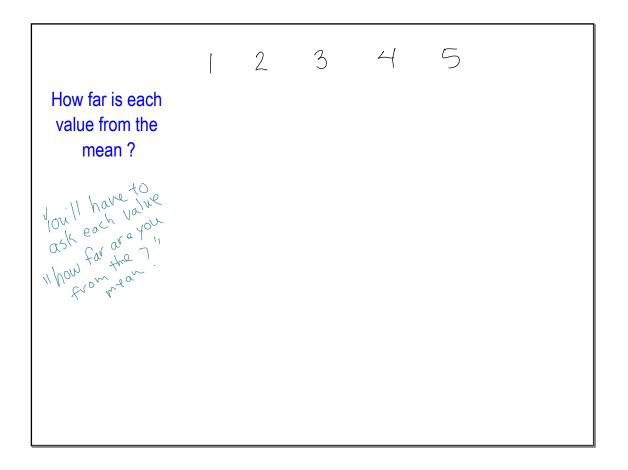






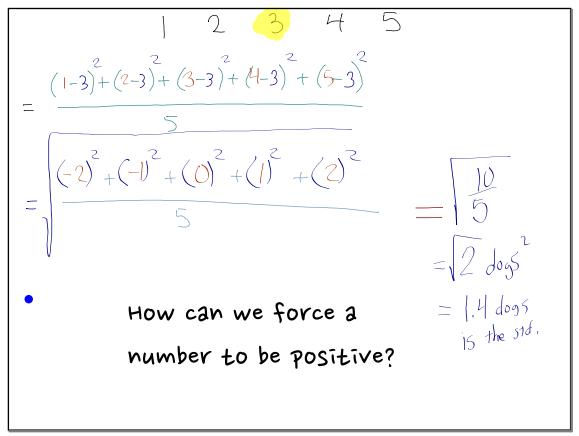
Data Set 34512 12345 mean.

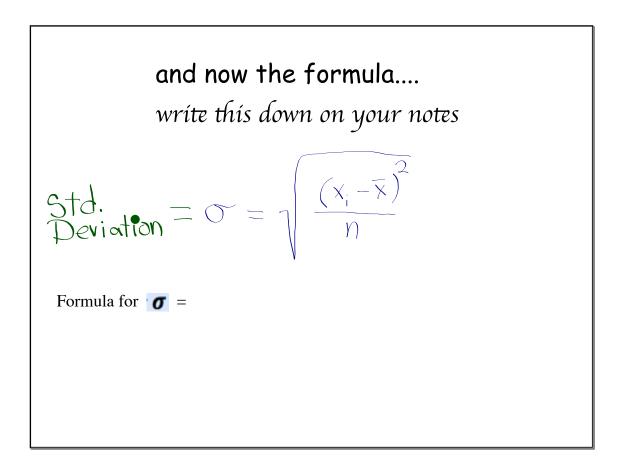
1 2 3 4 5 What is the average distance from the mean? Whaaat?

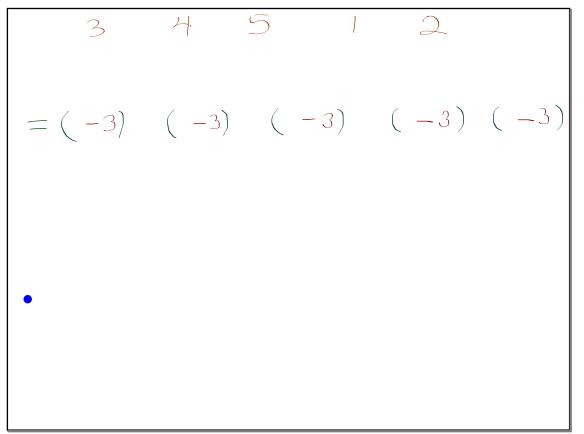


12345  $2 + | + 0 + 1 + 2 = \frac{\psi}{5} = |.2|$ How far is each value from the mean? So 1.2 dogs is the average dist from the mean (sort of) The Standard Deviation is the average distance from the mean ("sort of)

What did we

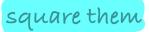


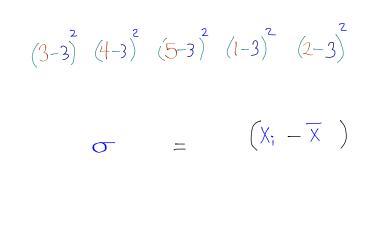




take the individual distances from the mean
$$(3-3) \quad (4-3) \quad (5-3) \quad (1-3) \quad (2-3)$$

$$\sigma = (-)$$

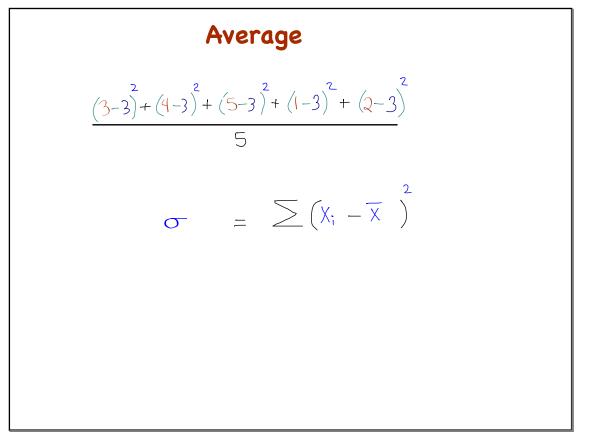


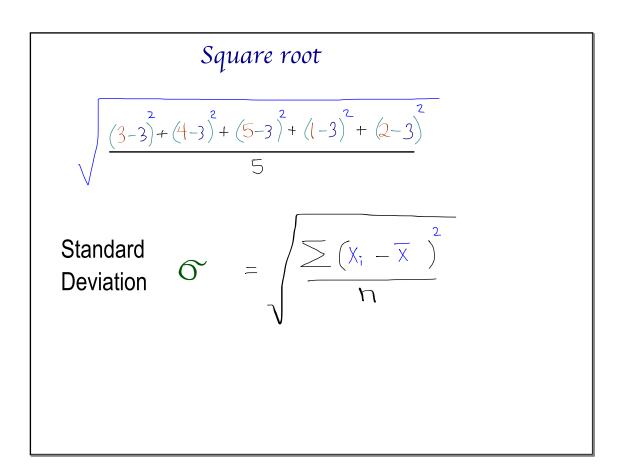


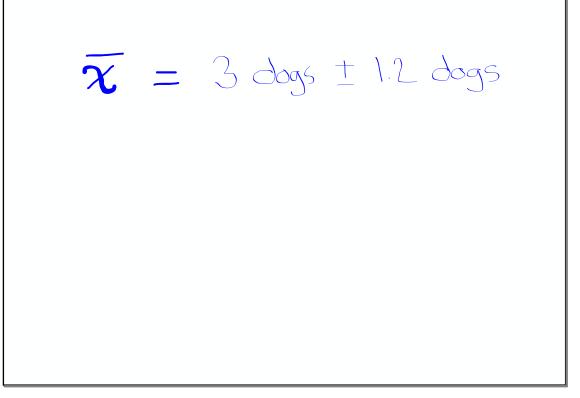
## Take their sum

$$(3-3)^{2} + (4-3)^{2} + (5-3)^{2} + (1-3)^{2} + (2-3)^{2}$$

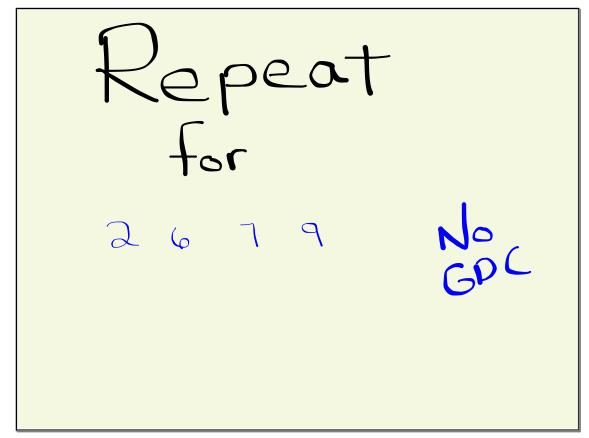
$$\sigma^{-} = \left( X_{1} - \overline{X} \right)^{2}$$

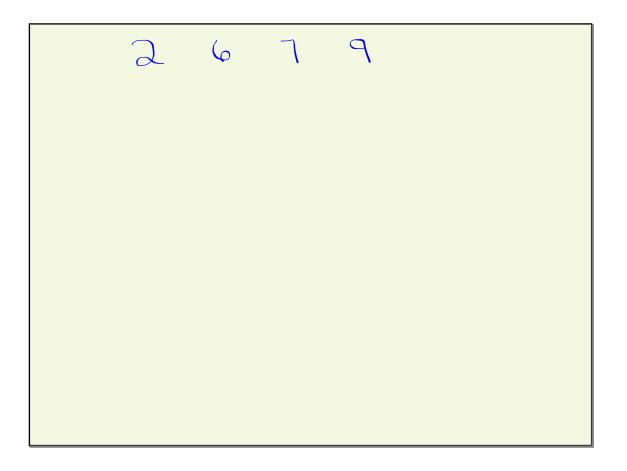


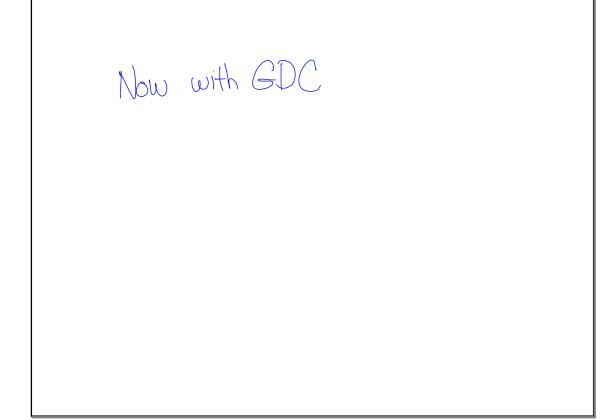


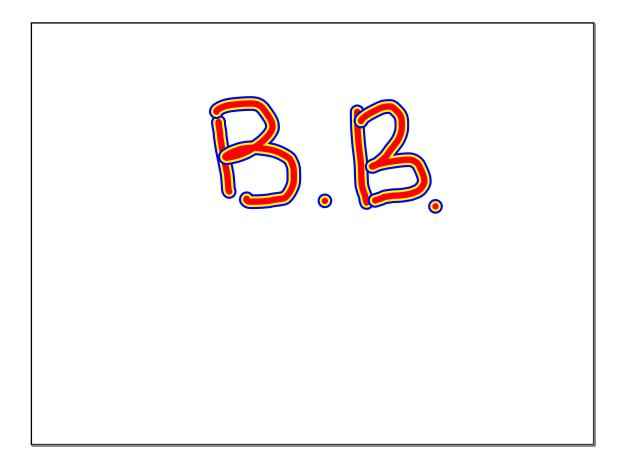


## Some Standard deviation is the square root of the average of the squared distances from the mean









<u>Assignment</u>

Worksheet 2001