QUESTIONS TO HAND IN – EXPERIMENT 1

NAME_____

LAB INSTRUCTOR_____LAB DAY/TIME_____

Given the data set of 20 points:

5,7,2,15,21,13,24,10,2,19,14,8,3,5,17,23,21,25,7,10

1. What is the mean value, $\overline{X}$?

2. What is the variance of the distribution?

3. What is the standard deviation, s, of the distribution?

4. What is the standard deviation of the mean, s_m?

5. Assuming that the standard deviation of the mean, s_m, gives a good approximation to σ for the mean, what are the plus-or-minus limits on the mean for 95% confidence in the result?