**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, ?

**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*, sm*?

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