

Instructions: Bring your work finished to class Monday, November 26. Clearly label each part of this problem on your paper. Do not print out the data sets, just the session window. Do not copy another student's work or permit another student to copy yours.

Our goal with this assignment is to better understand confidence intervals and hypothesis testing.

First generate 100 columns each with 100 rows of random normal data (Calc | random data | normal; columns "C1-C100", number of rows: 100; mean 5; Std. Dev 6.)

Now perform a hypothesis test to test the claim that the mean of the population is 5--which it is! (Stat | basic stats | 1-sample-t; check "perform hypothesis test" with mean 5; select rows "C1-C100")

Now print out that session window (not all of the data!). We will finish by hand.

Circle (or highlight) the 95% confidence intervals which do not include the mean.

How many are there? How many should you expect there to be on the average?

Put check marks by the rows for which we would reject the null hypothesis at $\alpha = 0.10$.

How many are there? How many should you expect there to be on the average?