Sync Session 4

.05% value came from fishers Tea Tastng Lady experiment.

Bootstrapping etc.. all parts of the wider field of statistics

No tests on permutations or bootstrapping for quizzes or final exam

Pairing example keyboard problem will be on quiz

Randomized complete block design.

There is a positive correlation between typing speeds.

Pairing or blocking improves the consistency and improves the power of proving the null hypothesis. There are two principles, randomization to balance groups make unbiased. Blocking- the pull out of a factor that adds variability that you don’t want.

Power calculation- power is the probability of the null hypothesis…. 1- beta= power.

1)define the hypothesis and test statistic

2).set type 1 error rate and same size. Find the critical value.

3). Determine the probablility of rejecting the null hypothesis given 1 and 2 as a function of the alternative d.

AVO in R for analysis of variance in R

Test question- Finish the one way Anova table

Two way analysis will be used on the second data analysis project.

Review keyboard test for quiz

F test will be on quiz

Don’t forget to square the stardard deviation.

We will be given a partial anova table. We will have to fill in the missing parts

\_ the test statistic is the f ratio the critical value is the value you get from the quantile function.

Fourth quiz- t test

Final exam-