- 7. Complete the following assignments prior to Meeting #29:
 - A. Study our notes from Meeting #28.
 - B. Study the sample response to Quiz #28's prompt.
 - C*. Comprehend the following case:

A biologist conducted a study to assess the effects of a particular medication on managing the symptom of a particular viral infection in lab rats. She administered the medication to an experimental group of infected rats and a placebo to a control group of infected rats. She then tested the both groups that produced interval scores reflecting the degree of symptoms of the disease the rats exhibited. Let E = the string of scores from the experimental group and C = the string of scores from the control group. She then employed an F-test of the following null hypothesis:

$$H_a: \mu_E = \mu_C$$

Because the F value was such that $p \ge 0.05$, the researcher did not reject H_a .

Examine each of the following propositions to determine its true value; indicate your choice by circling either "T" or "F" and then write a paragraph defending you choice; post the resulting document using designated *Canvas* assignment link:

 The results of the F-test indicated that the difference in the two means is not statistically significant.

Because she failed to reject the null hypothisis, The produce was big and she didnot have enough evidence to reject the

ii. The results of the F-test indicated that it is unlikely that the null hypothesis is true.

This is false because we concluded that she did not have enough eindence to reject Ho.

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iii. The results of the F-test suggests that there was hardly any difference in the effects of the experimental medication and the placebo on the scores.

Since Fruit > .05, we can only fail to rejet to.

That does not prove to.

iv. The results of the F-test indicated that |E-C| is too near 0 to justify rejecting H_o

@ F we found that there was not enough statistical evidence to reject Ho.

D*. Comprehend the following case:

A biologist conducted a study to assess the effects of a particular medication on managing the symptom of a particular viral infection in lab rats. She administered the medication to an experimental group of infected rats and a placebo to a control group of infected rats. She then tested the both groups that produced interval scores reflecting the degree of symptoms of the disease the rats exhibited. Let E = the string of scores from the experimental group and C = the string of scores from the control group. She then employed an F-test of the following null hypothesis:

$$H_a: \mu_E = \mu_C$$

Because the F value was such that $p \le 0.05$, the researcher rejected H_o .

Examine each of the following propositions to determine its true value; indicate your choice by circling either "T" or "F" and then write a paragraph defending you choice; post the resulting document using designated *Canvas* assignment link:

- The results of the F-test indicated that the difference in the two means is statistically significant.
 - Because there was a small F-value, we rejected Ho, and that means the results are statistically significant
- ii. The results of the F-test indicated that it is unlikely that the null hypothesis is true.

Because the results were statistically significant, it is unlikly that we would have selected a sample with as big of differences between the means as we did.

iii. The results of the F-test suggests that there was a difference in the effects of the experimental medication and the placebo on the scores.

That was the point of the test, and because our test yeilded Statistically Significant results, we can conclude that

iv. The results of the F-test indicated that the deviation of E-C from 0 is unlikely to be solely a function of sampling error.

This shows that there must have been other factors involved, perhaps the effectiveness of the drug.