

TAPE #21: INFERENCE FROM ONE MEAN

Name: _____

Class: _____

1. The student t distribution is a "bell shaped" distribution that differs in one way from a standard normal distribution. The difference is less apparent as n increases to 30. Describe the difference. *Hour*

2. What does the higher tail of a student t distribution mean?

3. The National Institute of Standards and Technology has more than 40,000 customers. They have a problem certifying the samples that they send to customers. Describe the problem.

4. The National Institute of Standards and Technology took ten sample bottles of PCBs for analysis. What was:

the sample mean?

the sample standard deviation?

the confidence interval?

5. The Nutra Sweet study for a softdrink company used a paired t test. What was the null hypothesis and the alternative hypothesis?

H_0 :

H_1 :

6. With the Nutra Sweet study what was the conclusion and what did the conclusion mean?

7. What does the Vineland Test from Yale University (a statistical test of children with autism) provide in terms of an intervention program for autistic children?