Name

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Determine whether the hypothesis test involves a sampling distribution of means that is a normal distribution, Student t distribution, or neither.

- 1) Claim: $\mu = 959$. Sample data: n = 25, x = 951, s = 25. The sample data appear to come from a normally distributed population with $\sigma = 28$.

A) Student t

B) Neither

- C) Normal
- 2) Claim: $\mu = 119$. Sample data: n = 15, x = 103, s = 15.2. The sample data appear to come from a normally distributed population with unknown μ and σ .

A) Neither

B) Student to

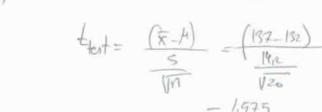
C) Normal

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Assume that a simple random sample has been selected from a normally distributed population. Find the test statistic, P-value, critical value(s), and state the final conclusion.

3) Test the claim that for the population of female college students, the mean weight is given by $\mu = 132$ lb. Sample data are summarized as n = 20, x = 137 lb, and s = 14.2 lb. Use a

significance level of $\alpha = 0.1$.



Test the given claim using the traditional method of hypothesis testing. Assume that the sample has been randomly selected from a population with a normal distribution.

4) Use a significance level of $\alpha = 0.05$ to test the claim that $\mu \neq 32.6$. The sample data consists of 15 scores for which x = 39.7 and s = 5.

=> There is support endance to reject to.

n=15

e= 7.828+105 =, 05 -> Right Ho.