

▪ **State:**

$H_0: \mu =$ _____

$H_a: \mu$ _____

H_0 : the true mean _____ is _____

H_a : the true mean _____ is _____

where $\mu =$ the true mean _____

▪ **Plan:**

_____ -sample _____ test for _____

Conditions

Randomness ---

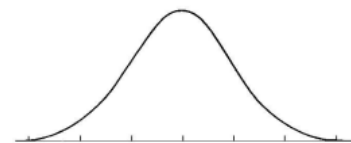
Independence ---

Large Counts ---

Do:

$\bar{x} =$ _____ $s =$ _____ $n =$ _____ $se =$ _____ $df =$ _____ $\alpha =$ _____

$P(t \text{ _____ }) = P(t \text{ _____ }) =$ _____



Since the _____ is _____ than the significance level $\alpha =$ _____, we have evidence to _____ the null hypothesis. We have _____ that it is _____ for the true mean daily caloric intake of calcium to be _____ for a sample size of _____. Our data _____ statistically significant.

*** **NOTE:** The conclusion must be written in context of the _____ hypothesis.

a)

▪ **State:**

$H_0: \mu =$ _____

$H_a: \mu$ _____ [NOTE: this is a 2-sided alternative]

H_0 : the true mean _____ burned by non-obese adults is _____

H_a : the true mean _____ burned by non-obese adults is _____

where $\mu =$ the true mean _____

▪ **Plan:**

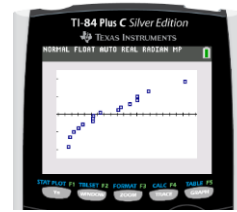
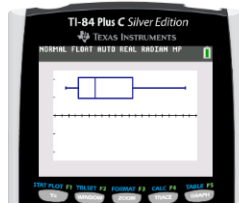
_____ -sample _____ test for _____

Conditions

Randomness ---

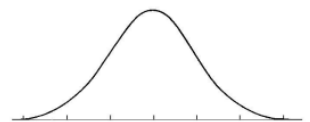
Independence ---

Large Counts ---



Do: $\bar{x} =$ _____ $s =$ _____ $n =$ _____ $se =$ _____ $df =$ _____ $\alpha =$ _____

_____ $P(t)$ _____ $) =$ _____ $P(t)$ _____ $) =$ _____



Since the _____ is _____ than the significance level $\alpha =$ _____, we have evidence to _____ the null hypothesis. We have _____ that it is _____ for the true mean _____ by non-obese adults to be _____ for a sample size of _____. Our data _____ statistically significant.

*** NOTE: The conclusion must be written in context of the _____ hypothesis.

b) Create a 95% confidence interval to estimate the mean change in NEAT.

[All conditions were met in part a).]

\bar{x} = _____ s = _____ n = _____ df = _____ CL = _____ t^* = _____

_____ \pm _____ (_____) (_____, _____)

We are _____ confident the true population mean for _____

_____ is in the interval _____

for a sample size of _____.

➤ Does this confidence interval justify our conclusion from the hypothesis test in part a) to reject the null hypothesis?

Discuss: _____
