

Warm-up:

1. Would you use the standard normal distribution table or the t-distribution table?

a. A researcher claims that the mean consumption of cotton is greater than 1.1 million bales per country. A random sample of 67 countries has a mean annual consumption of 1.0 million bales. Assume the population standard deviation is 4.3 million bales.....

b. A fitness magazine advertises that the mean monthly cost of joining a health club is \$25. You want to test this claim. You find that a random sample of 18 clubs has a mean monthly cost of \$26.25 and a standard deviation of \$3.23. Assume the population is normally distributed.....

2. Find the critical value(s) and rejection region(s) for the type of t-test with the given level of significance and sample size.

a. two-tailed test, $\alpha = 0.05, n = 20$

b. right-tailed test, $\alpha = 0.02, n = 63$

a. left-tailed test, $\alpha = 0.05, n = 48$