

No. Chapter 8 Extra T-test problems

1 Find the following:

a) Find $P(T > 2)$, when $n = 8$

b) Find $P(T < -0.5)$, when $n = 5$

c) Find $P(0.6 < T < 1.5)$, when $r = 22$

d) Find $P(T > -0.500)$, when $n = 14$

2 If the true mean is 5, what is the probability that a sample of 5 values could have a mean of 6.1 or greater if the sample standard deviation is 1.15 ?

3 Given the random sample of size 19 from a normal population, find k such that:

$$P(-2.069 < T < k) = 0.800$$

4 The sample mean of 7 values is 11 and the sample standard deviation is 2. What is the probability that the true mean is between 10 and 12 ?