

9.6 What is the p -value if, in a two-tail hypothesis test, $Z_{STAT} = +2.00$?

9.8 What is the p -value if, in a two-tail hypothesis test, $Z_{STAT} = -1.38$?

APPLYING THE CONCEPTS

9.9 In the U.S. legal system, a defendant is presumed innocent until proven guilty. Consider a null hypothesis, H_0 , that a defendant is innocent, and an alternative hypothesis, H_1 , that the defendant is guilty. A jury has two possible decisions: Convict the defendant (i.e., reject the null hypothesis) or do not convict the defendant (i.e., do not reject the null hypothesis). Explain the meaning of the risks of committing either a Type I or Type II error in this example.

b. What is
c. What is

7,500 hours

A random

7,250 hours

a. At the 0.
mean life

b. Compute

c. Construct
mean life

d. Compare
reach?

9.15 Suppo
1,200 hours.