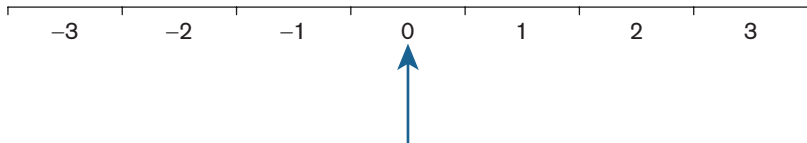


FIGURE 11.3 Hypothesis Testing

How close is the sample mean to the value of the population mean stated in the null hypothesis? Sample means farther from the null hypothesis make it less likely that the null is true.



Null hypothesis. A statement of the value of the mean or the mean difference in a population.

In hypothesis testing, we state a value for the population mean in the null hypothesis, then select a sample to determine the likelihood that this hypothesis is correct.