

Table 7.3

Symbolic and Verbal Representations for Two-Tailed Research and Null Hypotheses for a Single-Sample  $t$  Test

	<i>Symbolic</i>	<i>Verbal</i>	<i>Mean Difference Created by</i>
Research hypothesis ( $H_1$ )	$H_1: \mu_{\text{psych majors}} \neq 3,000$	The mean estimated starting salary of the population of psychology majors <i>is not equal to</i> the actual mean starting salary (\$3,000/month).	Psychology majors' over- or underestimate starting salaries of other psychology majors
Null hypothesis ( $H_0$ )	$H_0: \mu_{\text{psych majors}} = 3,000$	The mean estimated starting salary of the population of psychology majors <i>is equal to</i> the actual mean starting salary (\$3,000/month).	Sampling error