

**Table 12.7**

Symbolic and Verbal Representations of the Research and Null Hypotheses for the Main Effect of Time Delay

	<i>Symbolic</i>	<i>Verbal</i>	<i>Mean Difference Created by</i>
Research hypothesis ( $H_1$ )	$H_1: \mu_1 \neq \mu_2$	The mean of the population of exam scores produced after a 5-minute delay <i>is not equal</i> to the mean of the population of exam scores produced after a 2-day delay.	One time delay affecting memory more than the other
Null hypothesis ( $H_0$ )	$H_0: \mu_1 = \mu_2$	The mean of the population of exam scores produced after a 5-minute delay <i>is equal</i> to the mean of the population of exam scores produced after a 2-day delay.	Sampling error