

Table 10.2

Symbolic and Verbal Representations of One-Tailed Research and Null Hypotheses for an Independent t Test

	<i>Symbolic</i>	<i>Verbal</i>	<i>Mean Difference Created by</i>
Research hypothesis (H_1)	$H_1: \mu_1 < \mu_2$ OR $H_1: \mu_1 - \mu_2 < 0$	The population of “visual learners” <i>does</i> learn visual information better than the population of “verbal learners” does.	Visual learning style being better at learning visual information
Null hypothesis (H_0)	$H_0: \mu_1 \geq \mu_2$ OR $H_0: \mu_1 - \mu_2 \geq 0$	The population of “visual learners” <i>does not</i> learn visual information better than the population of “verbal learners” does.	Sampling error