

8.7: Structured Summary for the Independent Samples t-Test

After carefully reading the chapter, complete the following structured summary to add a learning check and easy-to-use reference to your notes.

Summarize what each symbol stands for.

$$\bar{X}_1 =$$

$$\bar{X}_2 =$$

$$S_1^2 =$$

$$S_2^2 =$$

$$n_1 =$$

$$n_2 =$$

Fill-in the appropriate information for each section below:

1. Independent Samples *t*-Test Basics

- For which kinds of data can/should this be used?
- What is the focus of this statistic?
- What assumptions must the data meet to use this test?

2. Independent Samples *t*-Test Formula

- What is the formula for an independent samples *t*-test?
- What are the preparatory steps for using this formula?
- What are the steps for solving using this formula?

3. Reporting Results from an Independent Samples *t*-Test

- How is this statistic reported when using APA format?
 - What four things must be reported in the APA summary paragraph?
 - What two specific statistics must be reported for each of the two groups?
 - What are the parts of the evidence string and what does each stand for or indicate?
 - How is effect size computed and reported for an independent samples *t* test under standard conditions?

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