

# CHAPTER 11

## TWO-SAMPLE HYPOTHESIS TESTS

In this chapter, we explore how to use EXCEL to perform hypothesis tests for two population means and two population proportions.

### HYPOTHESIS TESTS FOR THE DIFFERENCE BETWEEN TWO MEANS: INDEPENDENT SAMPLES

The assumptions for performing hypothesis tests for the difference between two means with independent samples are:

1. We have simple random samples from two populations.
2. The samples are independent of one another.
3. Each sample size is large ( $n > 30$ ), or its population is approximately normal.

**Example:** The National Assessment of Educational Progress (NAEP) tested a sample of students who had used a computer in their mathematics classes, and another sample of students who had not used a computer. The sample mean score for students using a computer was 309, with a sample standard deviation of 29. For students not using a computer, the sample mean was 303, with a sample standard deviation of 32. Assume there were 60 students in the computer sample, and 40 students in the sample that hadn't used a computer. Can you conclude that the population mean scores differ? Use the  $\alpha = 0.05$  level.

**Solution:** We first check the assumptions. We have two independent random samples. Both sample sizes are larger than 30. The assumptions are satisfied.

We are asked whether we can conclude that the two means differ. Therefore, this is a two-tailed test. The null and alternate hypotheses are

The test statistic is given by:

The calculations involved in computing the test statistic are as follows:

|    | A                       | B        | C           | D                      | E | F |
|----|-------------------------|----------|-------------|------------------------|---|---|
| 1  |                         | Computer | No Computer |                        |   |   |
| 2  | Sample Mean             | 309      | 303         |                        |   |   |
| 3  | Sample St Dev           | 29       | 32          |                        |   |   |
| 4  | Sample Size             | 60       | 40          |                        |   |   |
| 5  | $\mu_1 - \mu_2$         | 0        |             |                        |   |   |
| 6  |                         |          |             |                        |   |   |
| 7  | $\bar{x}_1 - \bar{x}_2$ | 6        |             | =B2-C2                 |   |   |
| 8  | Standard Error          | 6.29418  |             | =SQRT(B3^2/B4+C3^2/C4) |   |   |
| 9  |                         |          |             |                        |   |   |
| 10 | Test Statistic T        | 0.95326  |             | =(B7-B5)/B8            |   |   |

# Answers For Elementary Stats Fourth Edition

**John Indermaur, Charles Thwaites**



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