

11.2 IRA Guide (Paired Difference Test)

Introduction

Screen 1: Exercise based on Experimental Design (Section 1.6)

Screen 2: Exercise based on the one-mean test (Section 10.3)

Screen 3: Exercise based on confidence intervals for a mean (Section 9.2)

Screen 4: Exercise based on Type I and Type II Errors (Section 10.1)

Screen 5: List of Objectives

Objective 1 – Paired Difference Test

Screen 1: Background information on the one-mean test, you can skim through this.
(This test combines two sets of paired data into one set, and essentially performs the one-mean test.)

Screen 2: This screen goes over the conditions and steps for a paired difference test. Be sure to watch the video at the top of the screen.

Screen 3: Background information on the normality requirement. You can skim over this.

Screen 4: Example 1 shows how to conduct a paired difference test. Be sure to watch the StatCrunch video solution.

Screen 5: This exercise is based on Example 1 on the previous screen.

Objective 2 – Confidence Intervals for Paired Differences

Screen 1: Explanation of the confidence interval for paired differences. This is background information – StatCrunch will handle this behind the scenes for us.

Screen 2: Example 2 shows how to make a confidence interval for paired differences. Be sure to watch the StatCrunch video.

Screen 3: This exercise is based on Example 2 on the previous screen.

Screen 4: End of Section