

Section 11.3 IRA Guide

Introduction

Screen 1: I have removed this exercise about “Completely Randomized Design”. You should see a blank screen.

Screen 2: Exercise about a one-mean test (Section 10.3)

Screen 3: Exercise about making a confidence interval for a mean (Section 9.2)

Screen 4: Exercise about Type I and Type II errors (Section 10.1)

Section 5: List of Objectives

Objective 1 – Two Mean Hypothesis Test (Independent Samples)

Screen 1: Background information for the two mean test, skim over it.

Screen 2: More background for the two mean test, again, skim over it.

Screen 3: Steps for the two mean test – be sure to watch the video linked at the top of the screen.

Screen 4: Conditions for the two mean test – normally distributed (QQ Plot) and no outliers (boxplot) for each sample.

Screen 5: Example 1 covers the two mean test. Be sure to watch the StatCrunch video solution.

Screen 6: You can skim over this information about degrees of freedom.

Screen 7: This exercise is based on Example 1 on the previous screen.

Objective 2 – Confidence Intervals for the Difference of Two Means (Independent Samples)

Screen 1: Formulas for constructing a confidence interval for the difference between two means. StatCrunch will take care of this for us.

Screen 2: Example 2 covers the construction of a confidence interval for the difference between two means. Be sure to watch the StatCrunch video.

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

Screen 4: This screen explains the concept of pooling variances. You can skip this.

Screen 5: End of Section