Section 11.1 IRA Guide

Introduction

Screen 1: I have deleted the problem about "Completely Randomized Design", so you should see a blank screen.

Screen 2: This exercise will test your understanding of a matched-pairs design (Section 1.6).

Screen 3: This exercise tests your ability to perform a one-proportion test (Section 10.2).

Screen 4: This problem involves the creation of a confidence interval for a proportion (Section 9.1). Use StatCrunch, not the By Hand approach in Help Me Solve This/Show An Example.

Screen 5: A review of the difference between statistical significance and practical significance. (Section 10.3)

Screen 6: List of Objectives

Objective 1 – Independent versus Dependent Sampling

Screen 1: Watch the video on the difference between independent and dependent sampling.

Screen 2: Example 1 covers identifying independent and dependent samples. Watch the "By Hand" video solution.

Screen 3: This exercise is based on Example 1 on the previous screen.

Objective 2 – Two Proportion Test

Screen 1: This gives the background for the sampling distribution for this hypothesis test. You can give this a quick scan, but StatCrunch takes care of all of this for us behind the scenes.

Screen 2: Conditions for the two proportion test, and the steps involved. Be sure to watch the video that is linked at the top of the screen.

Screen 3: Example 2 shows how to perform a 2 proportion test. Be sure to watch the StatCrunch video solution.

Screen 4: More about "practical significance". Watch the "Caution" video.

Screen 5: This exercise is based on Example 2 on Screen 3.

Objective 3 – Confidence Intervals for Two Proportions

Screen 1: Explanation about constructing a confidence interval for the difference between two population proportions.

Screen 2: Example 3 covers how to make a confidence interval for the difference between two proportions. Be sure to watch the StatCrunch solution video.

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

Objective 4 – Sample Size for Estimating Two Proportions
You are not responsible for the material covered in this objective.

Screen 1: Background information for finding the sample size to estimate the difference between two proportions.
You can skip this screen.

Screen 2: Formulas for sample size – StatCrunch will do this for us.
You can skip this screen.

Screen 3: Example 4 covers finding the right sample size. Be sure to watch the StatCrunch solution video.
Although you can watch the example if you'd like, you are not responsible for this material.

Screen 4: This exercise is based on Example 4 on the previous page.
I have removed this problem from the assignment, so you should just see a blank screen.

Screen 5: End of Section