

Assignment #1

Part 1: Due June 1st, 8:15 AM - Part 2: Due June 14th, by 8:15 AM

DO NOT gather any data until I have returned part 1 of the assignment. This assignment is designed to have you use the material learned in class in an original way. You should follow these basic steps:

1. State a hypothesis that you are interested in studying
2. Design an experiment to test this hypothesis
3. Obtain a sample of at least 30 observations
4. Test you hypothesis

Part 1: DUE: June 1st – No assignment will be accepted if Part 1 has not been completed

One to two paragraphs where you explain exactly how you will run your experiment. If you are asking a question I must know the exact question, if you are measuring something I must know exactly how you will measure it. Include at the bottom of this assignment the pledge that is attached to page 2.

Part 2: DUE: June 14th - You will turn in a 3 to 5 page research report which will contain the following information. Note: You will lose five points if the STATA output is not attached!

1. Introduction - including your hypothesis and background on why you think this is an interesting question to ask.
2. Data summary - including how the information was gathered, what the sample size is, and summary and graphical representations of your data.
3. Hypothesis test - explain what statistical tool you used and what the statistics say about your hypothesis. Include a narrative of what these results may mean. Attach your STATA output as an appendix!

This assignment is loosely structured on purpose. I want you do look into anything you feel like looking into whether goofy or serious. Using and interpreting the correct statistics should be your main worry and not the results necessarily.

Grades will be assigned as follows

- ___ Introduction
 - ___ Clarity of hypothesis, general write up (1 point)
- ___ Data Summary
 - ___ How it was gathered (1 point)
 - ___ Summary statistics (1 point)
 - ___ Graphics (1 point)
- ___ Hypothesis Test
 - ___ Used and explained correct tool (2 points)
 - ___ Correct interpretation of results (2 points)
 - ___ Narrative (1 point)
- ___ Neatness, spelling, grammar, clarity (1 point)

In signing this pledge I confirm that the data collected in this experiment is for educational purposes only and I will never use it for any other purpose. If my experiment required information from human subjects, I will not attach any identifying information to the data, nor will I ask for any identifying information (name, address, phone, email, etc.). Any person that is asked to participate will be given the attached disclaimer.

Honor: _____

Your participation in this experiment is completely voluntary; you are not obligated to participate. Any information gathered will be used for educational purposes only, in conjunction with an introductory Statistics class. No identifying information will be attached to your information. If you have any questions, concerns, or the student asks for any identifying information contact the Instructor, Jason Jones, at jonesjc@email.unc.edu

Thank you