

PSYC 2317: Statistical Methods for Psychology

Tarleton State University

Homework 9

For the (admittedly silly) research questions below, you'll need to download the `survey1.csv` file from Canvas. Then, for each question, you need to write down the following:

- Identify the test that you are using.
 - Write down specific definitions for the null hypothesis \mathcal{H}_0 and the alternative hypothesis \mathcal{H}_1 . Be sure to include definitions for your parameters (i.e., μ_1, μ_2, \dots).
 - Report the appropriate test statistic and the p -value. What does this p -value tell you?
 - What is your answer to the research question?
1. Does GPA differ significantly between males and females?
 2. Does amount of sleep depend on political affiliation?
 3. Does height differ between left-handed and right-handed people?