ISyE 6739 – Group Activity 14 Group Number:

Names:

Use the following link and enter a number between 1 and 10 and your gender information in the spreadsheet.

https://docs.google.com/spreadsheets/d/1yUligBN-g9eoRPWT6iV6PGCr28O2s0d6VJtwWsD3oZw/edit?usp=sharing

Problem 1. Use a one-population proportion test to test whether the median of generated data is 5.

Problem 2. Test whether the proportion of even numbers depends on the gender or not. Find the p-value.

The waiting time of patients in different states can be found via https://projects.propublica.org/emergency/

Problem 3. Georgia claims that it has a lower average (mean) emergency room waiting time compared with South Carolina. Use this dataset to test this hypothesis with the confidence of 95%. (Hint: You need to test the variance equality first).

Problem 4. Use the Georgia waiting time data to define and test a two-population hypothesis test.