



## MGRECON 548Q: Empirical Economic Analysis

Fuqua School of Business, Duke University  
Fall 2020

### Help Section Week#1

Decide whether the following statements are true or false. Explain your reasoning.

#### Confidence Interval:

- The statement “The 95% confidence interval for the population mean is (350, 400)”, is equivalent to the statement, “there is a 95% probability that the population mean is between the numbers 350 and 400”.
- The statement “The 95% confidence interval for the population mean is (350, 400)” means that 95% of the population values are between 350 and 400”.
- “A 95% confidence interval obtained from a random sample of 1000 people has a better chance of containing the population percentage than a 95% confidence interval obtained from a random sample of 500 people”.

#### Hypothesis Testing:

- A p-value of .08 is more evidence against the null hypothesis than a p-value of .04.
- Even though you rejected the null hypothesis, it may still be true.
- If you get a p-value of .13, it means that the null hypothesis is true in 13% of all samples.