

## Week 5 – Arranging the Steps of NHST

Instructions: The Null Hypothesis Significance test (NHST) is the classic inferential test used throughout the 20<sup>th</sup> century. The NHST comprises a set of logical steps that lead to a consideration of the viability of a stated null hypothesis. Following the material presented on page 77 of *Reasoning with Data*, here is an unordered list of the steps:

- a. Calculate the test statistic
- b. Assert a null hypothesis
- c. Collect data
- d. Find the p-value associated with the test statistic
- e. Choose an alpha level
- f. Reject the null hypothesis
- g. Fail to reject the null hypothesis
- h. Evaluate the p-value with respect to alpha

Place these steps in the correct order and add a brief one or two sentence explanation that describes the purpose and importance of each step. When you have determined the order, post it in the chat (e.g., “h, g, f, e, d,...”) and be ready to report your answer to the class.