STAT 301  Statistics I  Fall 2014

Quiz 17: Transition to quantitative data

Taken on Mon Nov 10. Please work individually. You may use your text/notes. Please write “Quiz 17” and “STAT 301” on the quiz.

Reconsider the memory study that we performed in class today.

1. Identify the explanatory variable in this study. Is it categorical or quantitative?

2. Identify the response variable in this study. Is it categorical or quantitative?

3. Is this an observational study or an experiment?

4. Did this study make use of random sampling, random assignment, both, or neither?

5. If the difference in responses between the two groups is determined to be statistically significant, will it be legitimate to conclude that the grouping of letters has an effect on people’s memory scores? Explain briefly.