

STAT 221 Introduction to Probability and Statistics Winter 2012

Quiz 19

Taken on Fri Feb 24. Please work individually, using a half-sheet of paper. You may use your notes. Also, please include your section number (8am: section 2, 9am: section 3) and “quiz 19” along with your name.

Yesterday we analyzed two examples: a sleep deprivation study and a bicycle commuting study. All questions below pertain to these two studies.

1. In what primary way do these studies differ from the dolphin therapy and yawning studies that we analyzed a few weeks ago?
2. Were both of these experiments, or were both of these observational studies?
3. Did we use simulation-based or theory-based methods to analyze these studies yesterday?
4. Which of these two studies used a two-sided alternative?
5. With which of these two studies did we find strong evidence that there was a cause-and-effect relationship between the variables?