

STAT 221 Introduction to Probability and Statistics Winter 2012

Quiz 1

Wed Jan 4. You may work with one partner, submitting one quiz with both names, provided that you both contribute to the work. You may use your notes.

For questions 1-3, suppose that I want to investigate whether the color of paper on which an exam is printed has an effect on students' exam scores.

1. Identify the observational units in this study.
2. Identify one of the variables in this study, and classify it as quantitative or categorical.
3. Identify the other variable in this study, and classify it as quantitative or categorical.

For questions 4-5, consider the organ donation study that we examined yesterday.

4. We noticed that the opt-out and neutral options gave similar results, and the opt-in option produced a substantially worse result. What statistics were used to make this observation? (Answer in words, not with numbers. In other words, "similar" and "worse" in terms of what?)
5. When exploring the data, we created a graph with 3 bars. Was this because there were 3 variables, or because there were 3 categories for one of the variables? (Choose one of these two possible answers.)