## STAT 217: Types of Errors

- 1. How would you describe a type I error in the context of the paper towel experiment (brand vs. drops)?
  - A. We find no evidence for at least one difference in the true mean time to failure across number of drops (after controlling for brand), when truly there is no difference.
  - B. We find evidence for at least one difference in the true mean time to failure across number of drops (after controlling for brand), when truly there is a difference.
  - C. We find no evidence for at least one difference in the true mean time to failure across number of drops (after controlling for brand), when truly there is a difference.
  - D. We find evidence for at least one difference in the true mean time to failure across number of drops (after controlling for brand), when truly there is no difference.
- 2. How would you describe a type I error in the context of the Method vs. Ability example you did on Wednesday's worksheet?
  - A. We find evidence for a difference between bluebook and computer methods (after controlling for ability), when truly there is no difference.
  - B. We find no evidence for a difference between bluebook and computer methods (after controlling for ability), when truly there is no difference.
  - C. We find no evidence for a difference between bluebook and computer methods (after controlling for ability), when truly there is a difference.
  - D. We find evidence for a difference between bluebook and computer methods (after controlling for ability), when truly there is a difference.
- 3. Also label the answers that describe the type II error.