

FED854

Sample Items for Final

1. Which variable below will be the best covariate if you would like to compare different teaching methods in statistics? The dependent variable of the study is the final exam scores after the statistics course.
 - a. Gender.
 - b. Experience in a computer class (either yes or no).
 - c. Final exam scores from previous research method class.
 - d. Math test scores given at the same time as the final exam for the statistics course.

2. A disadvantage of using same subjects repeatedly is that
 - a. you may need larger sample size.
 - b. there may be a carry-over effect.
 - c. MS_e may become large.
 - d. F ratio may become small.

Questions 3-5 refer to the following situation:

A researcher developed two weight loss programs. Subjects were randomly assigned to either Program A or Program B. Their weight was measured at three different times: before they go into the program, one week after the completion of the program, and one month later.

3. The Program factor is
 - a. a within factor.
 - b. a between factor.

4. The Time factor is
 - a. a within factor.
 - b. a between factor.

5. This design is known as a split plot design.
 - a. true
 - b. false