STAT 217 – Quiz 14 (Statistical significance for quantitative data)

Assigned on Wed Feb 11, due on Thur Feb 12. You may work with a group of as many as 4 students, submitting one quiz with all names, provided that you all contribute to the work. Please use a half-sheet of paper. You may use your notes.

Refer to the two examples from Handout 13. Select the best answer among the options presented for the following.

1. Which is true about the response variables in the sleep deprivation and memory studies?
   a. Both are categorical.
   b. Both are quantitative.
   c. There is one of each type.

2. Which is true about the sleep deprivation and memory studies?
   a. Both are observational studies.
   b. Both are experiments.
   c. There is one of each kind of study.

3. Which is true about our simulation analyses of the sleep deprivation and memory studies?
   a. Our simulation analyses assumed that there is no difference/effect.
   b. Our simulation analyses assumed that there is a difference/effect.
   c. Our simulation analysis assumed no difference/effect for one study, and our simulation analysis assumed that there is a difference/effect for the other study.

4. If we had been using actual index cards rather than software to conduct the simulations, would we have used the same number of index cards for both the sleep deprivation and memory studies?
   a. Yes
   b. No
   c. There’s no way to use index cards to conduct such a simulation.

5. Which is true about our conclusions for the sleep deprivation and memory studies?
   a. We concluded that the data provide strong evidence of a difference/effect for both studies.
   b. We concluded that the data provide very weak evidence of a difference/effect for both studies.
   c. For one study we concluded that the data provide strong evidence of a difference/effect, and for the other study we concluded that the data provide very weak evidence of a difference/effect.