Assignment2

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1. (5 points) Describe a situation in which you had to make a choice, and there was a correct answer that was not available as you made your choice (e.g., “take an umbrella or not”, “walk or take a T”, etc.). Think about what information you used to help you decide, and then briefly answer the questions below:
2. What was the decision about? Identify a parameter of interest that you based your decision on.

* *Once, I had to decide to plan a lesson or go to sleep (thereby not planning my lesson for the next day.) The parameter of interest was my success in teaching the following day.*

1. What were your H0 and H1 about this parameter?

* *H0: Going to sleep will help me teach better than planning my lesson* *H1: Planning my lesson will help me teach better than going to sleep*

1. Based on what quantitative or qualitative information were you deciding? *I was basing my my decision qualitative data from my own experience. I generally feel much better when I've had sleep, and am able to think quickly enough to teach acceptably without planning my lesson precisely. However, I was also basing my decision on my qualitative experiences that when my lessons are planned well, I teach better.*
2. What was your guess of the p-value? Did you reject your H0? *My guess of the p-value was 0.03. I rejected my null hypothesis, and decided to write the lesson plan before going to sleep*
3. What were the possible consequences of making the wrong decision?

* *The possible consequences of making the wrong decision were the following:*
  + I would be embarassed in front of students for doing a bad job at teaching.
  + My students wouldn't learn enough material, and my principal would think I was a bad teacher.
  + My students wouldn't do well on standardized tests, and would not get scholarships for college.
  + I would get fired from my job as a teacher.
  + I could make lots of mistakes during my class

1. (10 points) Exercise 17 in Chapter 1 (2nd or 3rd ed.).

Group A Group A Group A Group A Group B Group B Group B DiffBwSamples 1 68 77 82 85 53 64 71 15.333 2 68 77 82 53 85 64 71 -3.333 3 68 77 82 64 85 53 71 3.083 4 68 77 82 71 85 53 64 7.167 5 68 77 85 53 82 64 71 -1.583 6 68 77 85 64 82 53 71 4.833

## [1] "The two-sided p-value is 0.0857"