Table Quiz #1 (5 pts)

First & Last Names:

1. Which of these **do not** apply to the word `statistics`?
   a. Statistics are numbers measured for some purpose.
   b. Statistics is a collection of procedures for collecting amd analyzing data.
   c. Statistics is a tool to help you make decisions when faced with uncertainty.
   d. All of the above statements apply to the word `statistics`.

2. A recent sample of 1,000 American adults found that 39% support Joe Biden to be the Democratic Presidential nominee. Which of the following describes the population for this example?
   a. The 1,000 American adults who participated in the study.
   b. All American adults who support Joe Biden.
   c. The 29% of American adults in the sample who support Joe Biden.
   d. All American adults.

3. Suppose you are conducting an experiment that involves assigning each of 100 participants to one of two treatments: Treatment A or Treatment B. Which of the following would **not** be considered to be a random assignment of participants to treatments?
   a. For each participant, flip a coin. If the coin lands heads up, assign them to group A. If the coin lands tails up, assign them to Group B.
   b. Put all 100 names in a hat and mix them up thoroughly. Draw 50 names from the hat and assign them to Group A. Everyone else is assigned to Group B.
   c. As the paticipants show up for the study, assign the first 50 of them to Group A, and the last 50 to Group B.

4. Suppose you want to conduct a survey to determine who is most likely to win the next presidential election. Which of the following would be considered to be a representative (unbiased) sample?
   a. 1,000 likely voters who called in to a local radio talk show.
   b. 1,000 likely voters who returned surveys sent to everyone on a Democrat or Republican newsletter mailing list.
   c. 1,000 likely voters who replied to an Internet website survey.
   d. None of these samples are representative.

5. Suppose a group of students who reported smoking marijuana was found to have significantly lower test scores than a group of students who reported they don't smoke marijuana. We can conclude that smoking marijuana leads to lower test scores.
   a. True
   b. False