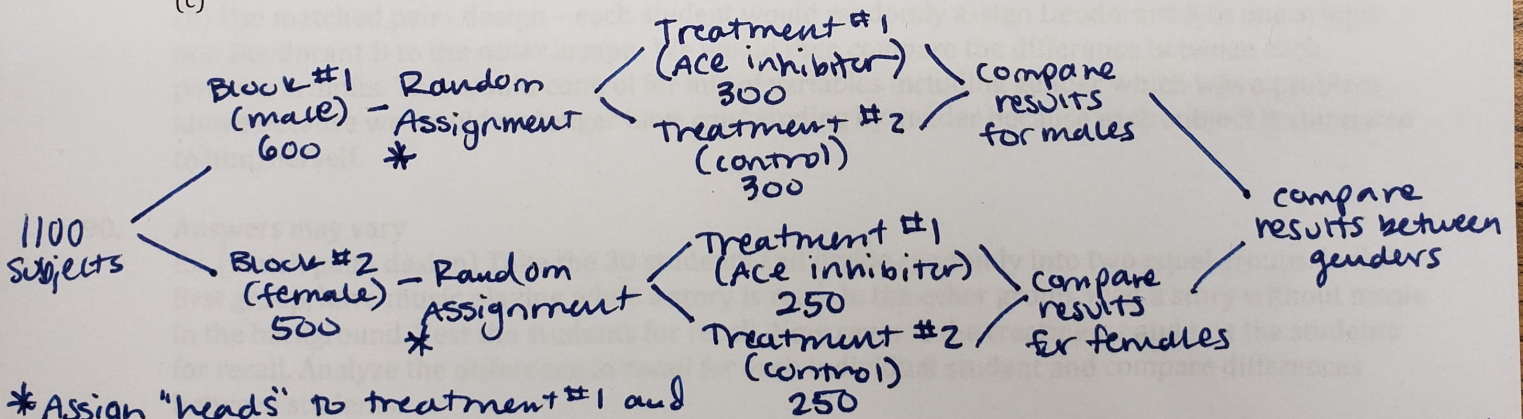


Review Sheet Key -

1. D
2. E
3. D
4. C
5. A
6. E
7. E
8. C
9. C
10. D

11. (a) This is an experiment because there was a random assignment to treatments of vitamin E and there was a control/Placebo group for comparison.
 (b) Explanatory Variable - Vitamin E, Response Variable - heart function
 (c) This was a randomized Single-blind Study. There was not blocking for control of specific lurking variables, however, the subjects do not know whether they are getting the vitamin E or not, which is controlling for the Placebo effect.
 (d) "Significantly" in the context of this study means that the response of heart function of the subjects cannot be explained by random assignments to treatments.
 (e) This was a controlled experiment because there was a placebo given to half of the subjects. This controls for the placebo effect and therefore can allow for the researchers to see the variation of the results apart from that lurking variable.

12. (a) I would choose a randomize block design where the blocks are used to control for the lurking variable of gender. This will allow the researchers to see the variability in the response variable apart from that lurking variable.
 (b) An experiment involving a larger sample is preferable to one of a smaller sample because a principle of good experimental design in repetition. This allows the researcher to distinguish and differences in the effects of the treatments from the chance differences in the sample.
 (c)



- *Assign "heads" to treatment #1 and "tails" to treatment #2 and for each subject flip a coin. ~~as soon as one treatment is full~~, the remaining participants get placed in other treatment as soon as one treatment is full, the remaining get placed in other treatment
13. (a) Question Wording Bias - The wording will lead to a higher percentage of the population wanting to oppose gun-control laws.
 (b) Undercoverage Bias - The survey sample will underrepresent those that are not at home during the middle of the day (like those who work during the day).