

1.
 - a. type of study sessions (categorical), score on AP exam (quantitative)
 - b. The inference goal is to test a claim about a parameter. The parameter is the population mean AP exam score for all AP Statistics students.
 - c. The population is all AP Statistics students. There is no cause-and-effect conclusion.
2.
 - a. whether or not a person gets daily exercise (categorical)
 - b. The inference goal is to estimate a parameter. The parameter is the proportion of all adults over age 50 who get daily exercise.
 - c. The population is all adults over age 50. There is no cause-and-effect conclusion.
3.
 - a. The population is missing. Does the amount of daily screen time decrease average sleep duration on weeknights **for teenagers in the United States**?
 - b. The variables of interest are missing. Does **increasing the number of homework questions** increase **test scores** for AP Statistics students?
 - c. The parameter is missing. What is the **proportion** of college students in Michigan who exercise regularly?
4. Is there convincing statistical evidence that the mean monthly rent for all one-bedroom apartments in New York City is greater than the mean monthly rent for all one-bedroom apartments in Los Angeles?
5. What is the proportion of all seniors at this school who did participate in a varsity sport while in high school?
6. D
7. C