

1. When your best friend hears that you are taking a psychology course, she asserts that psychology is simply common sense. Explain why your awareness of both the limits of everyday reasoning and the methods of psychological research would lead you to disagree with your friend's assertion.
2. The table below lists the scores of eight students on a test to measure anxiety, as well as the typical number of cigarettes each person smokes daily. Scores on the anxiety test can range anywhere from a low of 0 (indicating very low anxiety) to a high of 30 (indicating very high anxiety).

<u>Student</u>	<u>Anxiety Test Score</u>	<u>Cigarettes Smoked Daily</u>
1	8	11
2	9	3
3	15	11
4	14	16
5	21	26
6	12	10
7	22	24
8	17	18

Construct a scatterplot to represent the correlation between smoking and anxiety. Describe the direction of the correlation and give two possible explanations for it.

3. Speaking at Verbatim University's graduation ceremony, Professor Robson compared college and university graduates with adults who are less educated. She correctly noted that people with higher-education degrees pay more taxes, vote more frequently, engage in more volunteer activities in their communities, and are less likely to go to jail than less-educated adults. The professor concluded that colleges and universities obviously do great things for society. How might you reasonably challenge the way the professor reached her conclusion?
4. Design an experiment to test whether drinking alcohol influences people's tendency to become socially aggressive. Be sure to specify your experimental hypothesis and identify your dependent and independent variables, as well as your experimental and control conditions. Identify any experimental procedures that would help to ensure the reliability of your research.
5. Five students received the following test scores: 7, 11, 5, 6, and 11. Calculate the mode, median, mean, and range of this distribution of scores. Which measure of central tendency would change the most if an additional test score of 2 was included in the distribution?

6. At Michigan State University, 32 students are enrolled in class A, 48 students are enrolled in class B, and 16 students are enrolled in class C. For which of these three classes is there the greatest probability that more than 75 percent of the students have blond hair? Explain your answer and indicate why this explanation has relevance for generalizing appropriately from samples to the larger populations in which you are interested.

Answer Key

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.