The statistical inference techniques that we have studied in the past two weeks are:

E. Paired-sample \( t \)-procedures
F. Chi-square procedures for two-way tables
G. One-way ANOVA procedures
H. Simple linear regression procedures
I. Multiple regression procedures

For each of the following research questions, indicate (by letter) the appropriate statistical inference procedure for investigating the question.

1. Can you predict a Cal Poly student’s GPA based on his/her high school GPA, SAT score, and number of hours of employment per week?

2. A school cafeteria offers a vegetarian and a non-vegetarian option for lunch every day. For a period of two weeks, you record how many calories are in the vegetarian option and how many calories are in the non-vegetarian option. Your goal is to investigate whether vegetarian options tend to differ with regard to average number calories as compared to non-vegetarian options.

3. Is the frequency of a cricket’s chirps positively associated with temperature?

4. Is there an association between a person’s political viewpoint (liberal, moderate, conservative) and whether or not the person has made a financial contribution to charity in the past year?

5. Do customers at a restaurant tend to spend different amounts on their meal depending on whether classical, contemporary, or no music is playing in the background?