Try again once you are ready
Grade received 50%
To pass 80% or higher
Try again

1. Which of the following statements accurately describe t-tests and analyses of variance? Select all that apply. 0.5 / 1 point

- [ ] A t-test can test means between several groups.
- [ ] An analysis of variance test can test means between several groups.
- [x] A t-test can only test the difference of mean between two groups.

Correct
A t-test can only test the difference of mean between two groups. An analysis of variance test can test means between several groups.

- [x] An analysis of variance test can only test the difference of mean between two groups.

This should not be selected
A t-test can only test the difference of mean between two groups. An analysis of variance test can test means between several groups.

2. Which of the following are analysis of variance (ANOVA) tests? Select all that apply. 1 / 1 point

- [ ] Five-way ANOVA
- [ ] Half-way ANOVA
- [x] One-way ANOVA

Correct
One-way ANOVA and two-way ANOVA are types of analysis of variance tests. Analysis of variance, commonly called ANOVA, is a group of statistical techniques that test the difference of means between three or more groups.

- [x] Two-way ANOVA

Correct
One-way ANOVA and two-way ANOVA are types of analysis of variance tests. Analysis of variance, commonly called ANOVA, is a group of statistical techniques that test the difference of means between three or more groups.

3. Fill in the blank: A post hoc test performs a pairwise comparison between all available groups while controlling for the _____. 0 / 1 point

- (•) confidence interval
- ( ) variable selection
- ( ) Tukey's HSD
- ( ) error rate

⊗ Incorrect
A post hoc test performs a pairwise comparison between all available groups while controlling for the error rate. Confidence interval is a range of values that is likely to contain a population parameter.