Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1. Which statistical technique better isolates the relationship between a single categorical variable of interest and the Y variable? 1 / 1 point

- ○ One-way ANOVA
- ○ Multivariate analysis of covariance (MANCOVA)
- ◉ Analysis of covariance (ANCOVA)
- ○ Multivariate analysis of variance (MANOVA)

Correct
Analysis of covariance (ANCOVA) better isolates the relationship between a single categorical variable of interest and the Y variable. By taking the covariate into account, the ANCOVA technique allows data professionals to draw more accurate conclusions about the relationships among variables.

2. Which of the following statements accurately describe ANCOVA and linear regression? Select all that apply. 1 / 1 point

- ☑ Linear regression focuses on a continuous Y variable

Correct
ANCOVA includes covariates to gain a more clear understanding of the categorical variable. Linear regression helps predict the Y variable for unrecognized data.

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Correct
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- ☑ ANCOVA allows for continuous and categorical independent variables

Correct
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Correct
ANCOVA includes covariates to gain a more clear understanding of the categorical variable. Linear regression helps predict the Y variable for unrecognized data.

3. What is the key difference between MANCOVA and MANOVA? 1 / 1 point

- ○ MANCOVA includes a null hypothesis.
- ○ MANOVA has two or more continuous variables.
- ◉ MANCOVA controls for covariates.
- ○ MANOVA includes a categorical variable.

Correct
The key difference between MANCOVA and MANOVA is that MANCOVA controls for covariates. If a data professional is only interested in one categorical variable and they want to control for another variable, they can use MANCOVA.