

## Lesson Overview

Like previous lessons, this lesson focuses on statistical analysis with a continuous response variable. You have already learned to use OLS regression when you have one or more continuous predictor variables, and ANOVA when you have one or more categorical predictor variables. So, what do you do when you have a continuous response and a combination of continuous and categorical predictors? When you have both types of predictors, you can use analysis of covariance (ANCOVA).

In this lesson, you learn to perform an analysis of covariance and interpret the results. Then you learn to compare the least squares means for groups at a specified value of the continuous predictor variable. Finally, you learn to perform diagnostics on an ANCOVA model.

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