Congratulations! You passed!
Grade received 93.75%
To pass 80% or higher
Go to next item

1. What technique estimates the linear relationship between a continuous dependent variable and one or more independent variables? 1 / 1 point

- ○ Intercept
- ○ Causation
- ○ Model validation
- ◉ Linear regression

✓ Correct
Linear regression estimates the linear relationship between a continuous dependent variable and one or more independent variables.

2. Which of the following statements accurately describe dependent and independent variables? Select all that apply. 0.75 / 1 point

- ☑ Independent variables are also referred to as explanatory or predictor variables.

✓ Correct
The dependent variable is the variable the given model estimates. It tends to vary based on the values of independent variables. Independent variables are also referred to as explanatory or predictor variables.

- ☑ The dependent variable tends to vary based on the values of independent variables.

✓ Correct
The dependent variable is the variable the given model estimates. It tends to vary based on the values of independent variables. Independent variables are also referred to as explanatory or predictor variables.

- ☐ The dependent variable is the variable the given model estimates.
- ☐ The independent variable tends to vary based on the values of dependent variables.

You didn't select all the correct answers

3. What term describes an inverse relationship between two variables? 1 / 1 point

- ◉ Negative correlation
- ○ Intercept
- ○ Positive correlation
- ○ Slope

Correct
With negative correlation, when one variable increases, the other variable tends to decrease. The reverse is also true.

4. Fill in the blank: The goal of regression analysis is to use math to define the _____ between the sample X's and Y's in order to understand how the variables interact. 1 / 1 point

- value
- relationship
- independence
- model

Correct
The goal of regression analysis is to define a relationship mathematically between the sample X's and Y's in order to understand how the variables interact.