Congratulations! You passed!
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1. How many dependent variables typically exist in a regression model?   1 / 1 point

- ◉ One
- ○ Three
- ○ Two
- ○ Four

  ✓ Correct

2. A data professional at a cafeteria supplier works on a project related to new recipe development. In order to justify the use of particular data techniques, they develop statements about their data that must be true. What are they creating in this scenario?   1 / 1 point

- ○ Linear models
- ○ Independent assumptions
- ◉ Model assumptions
- ○ Model functions

  ✓ Correct

3. A data professional considers what data they have access to and how to view that data in a problem context. What PACE stage are they working in?   0 / 1 point

- ◉ Analyze
- ○ Plan
- ○ Construct
- ○ Execute

  ✗ Incorrect
Review the video about PACE in regression analysis. ↗

4. Fill in the blank: _____ is a technique that estimates the relationship between a continuous dependent variable and one or more independent variables.   1 / 1 point

- ◉ Linear regression

○ Complex regression
○ Logistic regression
○ Ethical regression

⊘ Correct

5. Which of the following statements accurately describe dependent and independent variables? Select all that apply.

0.5 / 1 point

☐ A dependent variable is often represented by X.

☐ An independent variable is often represented by X.

☑ A dependent variable is the variable a given model estimates.

⊘ Correct

☑ An independent variable is the variable a given model estimates.

⊗ This should not be selected
Review the video about regression analysis.⤢

6. What is a relationship between two variables that tend to increase or decrease together?

1 / 1 point

○ Positive causation
⦿ Positive correlation
○ Negative correlation
○ Negative causation

⊘ Correct

7. A data professional reviews the estimated betas, often designated with a hat symbol. What is the term for this estimated beta?

1 / 1 point

⦿ Regression coefficients
○ Slope coefficients
○ Regression intercepts
○ Parameter intercepts

⊘ Correct

8. A veterinary practice wants to determine whether most new patients will choose to return for follow-up care. A data analyst for the practice investigates this issue by modeling a categorical variable based on one or more independent variables. What technique do they use?

     ○ Coefficient regression
     ○ Linear regression
     ◉ Logistic regression
     ○ Slope regression

     ⊘ Correct

1 / 1 point

9. Fill in the blank: A _____ connects the dependent variable to the independent variables mathematically.

     ○ coefficient regression
     ○ coefficient function
     ○ link regression
     ◉ link function

     ⊘ Correct

1 / 1 point