

⚠ Try again once you are ready

Grade
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To pass 80% or
higher

Try again

1. How many dependent variables typically exist in a regression model?

0 / 1 point

- ☐ Three
- ☐ Four
- ☐ One
- ☒ Two

✗ Incorrect
Review [the video that introduces this course](#) ↗.

2. A data professional at an aviation company uses regression analysis while researching plans for a new cargo system. They use Python to perform exploratory data analysis and justify the use of particular data techniques. They also create statements about the data that must be true. What are they creating in this scenario?

0 / 1 point

- ☒ Independent assumptions
- ☐ Model assumptions
- ☐ Linear models
- ☐ Model functions

✗ Incorrect
Review [the video about PACE in regression analysis](#) ↗.

3. A data professional creates a model in Python and rechecks the model assumptions. What PACE stage are they working in?

1 / 1 point

- ☐ Execute
- ☒ Construct
- ☐ Plan
- ☐ Analyze

✓ Correct

4. A data professional is estimating the relationship between a continuous dependent variable and one or more independent variables. What technique are they using?

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.

1 / 1 point

- ☐ A dependent variable is also called the explanatory or predictor variable.
- ☒ A dependent variable is typically represented by Y.

✓ Correct

- ☒ An independent variable is typically represented by X.

✓ Correct

- ☐ An independent variable is also called the response or outcome variable.

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

1 / 1 point

- ☐ Negative correlation
- ☐ Negative causation
- ☐ Positive causation
- ☒ Positive correlation

✓ Correct

7. A data professional reviews existing samples of data for both the dependent and independent variables. What is the term for this data sample?

1 / 1 point

- ☐ Link functions
- ☒ Observed values
- ☐ Parameters
- ☐ 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?

1 / 1 point

- ☐ Slope regression
- ☐ Linear regression
- ☒ Logistic regression
- ☐ Coefficient regression

✓ Correct

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

0 / 1 point

- ☐ coefficient regression
- ☒ coefficient function
- ☐ link function
- ☐ link regression

✗ Incorrect

Review [the video that introduces logistic regression.](#) ↗