

✔ **Congratulations! You passed!**

Grade
received **100%**

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

1 / 1 point

- ☐ Four
- ☐ Two
- ☒ One
- ☐ Three

✔ **Correct**

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?

1 / 1 point

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

✔ **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?

1 / 1 point

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

✔ **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
- ☐ Logistic regression
- ☐ Complex regression
- ☐ Ethical regression

✔ **Correct**

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

1 / 1 point

☒ An independent variable is often represented by X.

✔ **Correct**

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

✔ **Correct**

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

☐ A dependent variable is often represented by X.

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

1 / 1 point

- ☐ Negative causation

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

✓ Correct

7. A data professional creates a linear regression equation and reviews the properties of populations, sometimes referred to as μ of y and the betas. What term describes this portion of the equation?

1 / 1 point

- ☐ Intercepts
- ☐ Slopes
- ☒ Parameters
- ☐ Lines

✓ Correct

8. A sporting equipment manufacturer wants to know the likelihood of its customers choosing to reorder a particular item. The data team researches this question by modeling a categorical variable based on one or more independent variables. What technique do they use?

1 / 1 point

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

✓ Correct

9. A data professional wants to connect the dependent variable and independent variable mathematically. What function can enable them to make this connection?

1 / 1 point

- ☐ Link regression
- ☒ Link function
- ☐ Coefficient regression
- ☐ Coefficient function

✓ Correct