## Congratulations! You passed!

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1. Fill in the blank: The _____ determines whether an observed categorical variable follows an expected distribution. 1 / 1 point

- (•) chi-squared goodness of fit test
- ( ) f-test
- ( ) bias-variance test
- ( ) chi-squared test for independence

Correct

2. What examines the relationship between categorical variables and continuous variables? 1 / 1 point

- ( ) Loss function
- ( ) Explanatory variance
- ( ) Adjusted R-squared
- (•) Analysis of variance

Correct

3. A data professional at an online retailer wants to understand the expected outcome of an upcoming sale. They perform a test that compares the means of one continuous dependent variable based on five groups of two categorical variables. What type of test does this scenario describe? 1 / 1 point

- ( ) Post hoc test
- ( ) One-way analysis of variance
- (•) Two-way analysis of variance
- ( ) T-test

Correct

4. Fill in the blank: The post hoc test performs a pairwise comparison between _____ while controlling for the error rate. 1 / 1 point

- ( ) only two groups
- (•) all available groups
- ( ) only one group
- ( ) only three groups

Correct

5. A data professional at an automotive manufacturer is asked to find a solution to a common manufacturing defect. They research the relationship between categorical and continuous variables to ensure all variables are relevant to the specific defect. What type of statistical technique do they use? 1 / 1 point

- ( ) Analysis of regression
- ( ) Analysis of variance
- ( ) Analysis of independence
- (•) Analysis of covariance

Correct

6. A data professional compares how two or more continuous variables vary according to categorical independent variables. What statistical technique are they using? 1 / 1 point

- ( ) Mean analysis of variables
- (•) Multivariate analysis of variance
- ( ) Analysis of variables
- ( ) Analysis of variance

Correct

7. A researcher wants to evaluate the effectiveness of different job training programs on various skill outcomes. She has two continuous dependent variables: a technical skills score and a soft skills score. Her independent variable is the training program, which can be either in-person instruction or online instruction. What type of analysis should she use? 1 / 1 point

- (•) MANOVA
- ( ) ANOVA
- ( ) ANCOVA
- ( ) MANCOVA

Correct