

Congratulations! You passed!
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1. Fill in the blank: The chi-squared goodness of fit test determines whether an observed _____ variable follows an expected distribution. 1 / 1 point

- ☐ dependent
- ☐ absolute
- ☒ categorical
- ☐ continuous

☒ Correct

2. Fill in the blank: Analysis of variance examines the relationship between _____. 1 / 1 point

- ☐ null and alternative variables
- ☐ initial and second hypothesis variables
- ☐ dependent and independent variables
- ☒ categorical and continuous variables

☒ Correct

3. A junior data analyst at a fabric supplier works to identify the expected outcome of a new product introduction. They compare the means of one continuous dependent variable based on four groups of two categorical variables. What type of test does this scenario describe? 1 / 1 point

- ☒ Two-way analysis of variance
- ☐ One-way analysis of variance
- ☐ T-test
- ☐ Post hoc test

☒ Correct

4. The post hoc test performs a pairwise comparison between all available groups while controlling for what? 1 / 1 point

- ☒ error rate
- ☐ bias

- ☐ median
- ☐ mean

☒ Correct

5. A data analytics team wants to solve a problem about employee retention. They study the relationship between categorical and continuous variables to ensure all variables are relevant to the retention issues. What type of statistical technique do they use?

1 / 1 point


- ☐ Analysis of regression
- ☐ Analysis of variance
- ☒ Analysis of covariance
- ☐ Analysis of independence

☒ Correct

6. Fill in the blank: When using _____, the independent variables must be categorical and the outcome variables must be continuous.

0 / 1 point

- ☒ analysis of variance
- ☐ multiple analysis of variables
- ☐ multivariate analysis of variance
- ☐ analysis of variables

☒ Incorrect
Review [the video about statistical techniques](#). 

7. A junior data analyst uses MANOVA to analyze the relationship between one categorical variable and two or more continuous dependent variables, while controlling for covariates. What types of variables does MANCOVA compare while controlling for covariates? Select all that apply.

1 / 1 point

☒ Dependent

☒ Correct

☒ Outcome

☒ Correct

☐ Independent

☐ Preparation

