

⚠ Try again once you are ready

Grade
received **53.57%**

Latest Submission
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To pass 80% or
higher

Try again

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 is the group of statistical techniques that test the difference of means between three or more groups?

0 / 1 point

- ☐ Variance of selections
- ☐ Linearity of variance
- ☐ Analysis of variance
- ☒ Interactions of variance

✗ Incorrect
Review [the video about variable testing.](#)

3. A data analytics team at a technical support provider works to identify the expected outcome of a customer policy update. They compare the means of one continuous dependent variable based on three 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?

0 / 1 point

- ☒ bias
- ☐ median
- ☐ error rate
- ☐ mean

✗ Incorrect
Review [the video about ANOVA tests with Python.](#)

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?

0 / 1 point

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

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

6. Fill in the blank: The acronym MANOVA means _____ analysis of variance.

1 / 1 point

- ☐ multiple

- ☐ mean
- ☐ model
- ☒ multivariate

✓ Correct

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.

0.75 / 1 point

☒ Outcome

✓ Correct

☐ Preparation

☒ Independent

✗ This should not be selected
Review [the video about MANOVA and MANCOVA](#). ↗

☒ Dependent

✓ Correct