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Try again

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

- ☐ independence
☐ variance
☒ goodness
☐ bias

✓ Correct

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

- ☐ Loss function
☐ Adjusted R-squared
☒ Analysis of variance
☐ Explanatory variance

✓ 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? 0 / 1 point

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

✗ Incorrect
Review [the video about the analysis of variance.](#)

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

- ☒ error rate

- ☐ mean
- ☐ bias
- ☐ median

☒ Correct

5. A data professional needs to answer a question about company financials. They study the relationship between categorical and continuous variables to control for the effect of variables that are unrelated to the financial question. What type of statistical technique do they use?

1 / 1 point

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

☒ Correct

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

1 / 1 point

- ☐ mean
- ☐ model
- ☒ multivariate
- ☐ multiple

☒ Correct

7. A data professional uses MANOVA to analyze the relationship between one categorical variable and two or more continuous dependent variables, while controlling for covariates. What type of variables should they add?

0 / 1 point

- ☐ Correlated
- ☐ Absolute
- ☒ Independent
- ☐ Dependent

☒ Incorrect
Review [the video about MANOVA and MANCOVA](#).