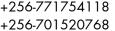
Here's a quiz about statistical tests:

- 1. What is the t-test used for?
- a) Comparing means of two independent samples
- b) Comparing variances of two independent samples
- c) Comparing means of two dependent samples
- d) Comparing variances of two dependent samples
- 2. In a t-test, what assumption(s) must be met for valid results?
- a) Normality of data
- b) Equal sample sizes
- c) Independence of observations
- d All of the above
- 3. When is a z-test typically used?
- a) When the sample size is small
- b) When the population standard deviation is unknown
- (c) When comparing means of two independent samples with large sample sizes
- d) When the data is not normally distributed
- 4. What is the chi-squared test used for?
- a) Comparing means of two independent samples
- biresting the association between categorical variables
- c) Comparing variances of two independent samples
- d) Testing the difference between more than two group means





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- 5. In a chi-squared test of independence, what does a high p-value indicate?
- a) There is evidence of association between the variables
- There is no evidence of association between the variables
- c) The variables are perfectly correlated
- d) The variables are independent
- 6. ANOVA is used for comparing means of how many groups?
- a) Two
- b) Three or more
- c) Four
- d) Any number
- 7. In ANOVA, what does a low p-value indicate?
- a) There are significant differences between group means
- b) There are no significant differences between group means
- c) The groups have the same mean
- d) The groups are not normally distributed
- 8. Which assumption(s) must be met for conducting ANOVA?
- a) Normality of data
- b) Equal variances between groups
- c) Independence of observations
- d) All of the above



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- 9. What is the main difference between t-test and ANOVA?
- a) ANOVA can only handle two groups, while t-test can handle three or more groups
- b) ANOVA is used for comparing means of two independent samples, while t-test is used for comparing means of more than two independent samples
- c) T-test is used for comparing means of two independent samples, while ANOVA is used for comparing means of three or more independent samples
- d) There is no difference between them, they are used interchangeably
- 10. When should you use a paired t-test instead of an independent t-test?
- a) When comparing means of two independent samples
- b) When comparing means of two dependent samples
- c) When comparing means of three or more independent samples
 - d) When comparing means of three or more dependent samples



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Sincerely,

Juma Shafara

Data Scientist, Instructor

