

1. a) True
2. a) Central Limit Theorem
3. c) Modeling contingency tables
4. c) The square of a standard normal random variable follows what is called chi-squared distribution
5. c) Poisson
6. b) False
7. b) Hypothesis
8. a) 0
9. c) Outliers cannot conform to the regression relationship
10. Normal distribution is a fundamental concept in statistics. It has symmetric, bell-shaped curve when plotted on a graph.
11. Missing data can be handled by many ways depend on nature of data. Like by Mean/Mode/Median Imputation, K-Nearest Neighbors (KNN) Imputation, Regression Imputation.
12. A/B is a statistical process to compare two versions of a webpage or app to determine which one performs better in terms of user engagement, conversion rates, or other desired outcomes.
13. It depends on nature of data. Mean imputation involves replacing missing values with the mean of the available data for that variable. This approach can be useful when the missing data is missing completely at random.
14. Linear regression is a statistical technique used to model the relationship between a dependent variable and one or more independent variables. It's used to allows for predicting the value of the dependent variable based on the values of the independent variables.
15. Descriptive Statistics, Probability, machine learning.