

1. (a) True.
2. (a) Central Limit Theorem
3. (b) Modeling bounded count data
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 also called the Gaussian Distribution which is most continuous probability distribution.
11. Handling missing data helps to ensure the reliability of statistical analyses or machine learning models. There are some techniques to handle missing data which is Deletion and Imputation.
12. A/B testing includes application of statistical hypothesis testing or "two-sample hypothesis testing" as used in the field of statistics. A/B testing is a way to compare multiple versions of a single variable
13. Yes, Imputing the mean is an acceptable practice for missing data imputation. It is a good practice to identify and replace missing values for each column in your input data.
14. In statistics, linear regression is a statistical model which estimates the linear relationship between one or more explanatory variables
15. Data collection, Descriptive statistics, Inferential statistics, Probability Regression, Machine learning, Time-series