

1. Which of the following **is** the correct formula **for** total variation?

Ans :- B

Total Variation = Residual Variation + Regression Variation

2. Collection of exchangeable binary outcomes **for** the same covariate data are called

Ans :C

Binomial

3. How many outcomes are possible **with** Bernoulli trial?

Ans :- A

2

4. If H_0 **is** true **and** we reject it **is** called

Ans :- A

Type-I error

5. Level of significance **is** also called:

Ans :-

6. The chance of rejecting a true hypothesis decreases when sample size **is**:

Ans :- B

Increase

7. Which of the following testing **is** concerned **with** making decisions using data?

Ans :- B

Hypothesis

8. What **is** the purpose of multiple testing **in** statistical inference?

Ans :- D

9. Normalized data are centred at ___ **and** have units equal to standard deviations of the original data

Ans :- 0

10. What Is Bayes' Theorem?

Ans :- Bayes' theorem describes the probability of occurrence of an event related to any condition.

It is also considered for the case of conditional probability.

Bayes theorem is also known as the formula for the probability of "causes".

11. What is z-score?

Ans :-

A z score is simply defined as the number of standard deviation from the mean.

The z-score can be calculated by subtracting mean by test value and dividing it by standard value

12. What is t-test?

Ans :- The t-test is a test that is mainly used to compare the mean of two groups of samples.

It is meant for evaluating whether the means of the two sets of data are statistically significantly different from each other.

13. What is percentile?

Ans :-

A percentile is a comparison score between a particular score and the scores of the rest of a group.

It shows the percentage of scores that a particular score surpassed.

14. What is ANOVA?

Ans :- Analysis of variance (ANOVA) is an analysis tool used in statistics that splits an observed aggregate variability found inside a data set into two parts: systematic factors and random factors

15. How can ANOVA help?

Ans :-