

STATISTICS WORKSHEET-3

10. What Is Bayes' Theorem?

Ans- The Bayes theorem is a mathematical formula for calculating conditional probability in probability and statistics. In other words, it's used to figure out how likely an event is based on its proximity to another.

11. What is z-score?

Ans- The z score otherwise known as standard score represents the number of standard deviations with which the value of an observation point or data differ than the mean value of what is observed.

12. What is t-test?

Ans- A t-test is an inferential statistic used to determine if there is a significant difference between the means of two groups and how they are related. T-tests are used when the data sets follow a normal distribution and have unknown variances, and The t-test is also used for hypothesis testing in statistics and uses the t-statistic, the t-distribution values, and the degrees of freedom to determine statistical significance.

13. What is percentile?

Ans- A percentile is a term that describes how a score compares to other scores from the same set.

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. The systematic factors have a statistical influence on the given data set, while the random factors do not. Analysts use the ANOVA test to determine the influence that independent variables have on the dependent variable in a regression study.

15. How can ANOVA help?

Ans- ANOVA helps you find out whether the differences between groups of data are Statistically significant. It works by analyzing the levels of variance within the groups Through samples taken from each of them.