

WORKSHEET_STATISTICS_3

1. b) Total Variation = Residual Variation + Regression Variation
2. c) binomial
3. a) 2
4. a) Type-I error
5. a) Power of the test
6. a) Decrease
7. b) Hypothesis
8. a) Minimize errors
9. a) 0
10. Bayes Theorem is a method to determine conditional probabilities, that is, the probability of one event occurring given that another event has already occurred. Because a conditional probability includes additional conditions.
11. Z score represents the number of standard deviations with which the value of an observation point differ than the mean value of what is observed.
12. T-Test compares the mean of two populations to determine how different they are from each other. There are two variations of T-tests:
 - One Sample Ttest
 - Two Sample Ttest – Independent Sample Ttest and Paired Sample Ttest
13. A percentile is a term used to describe and interpret data distributions.
14. ANOVA - Analysis of Variance is used to determine the influence that independent variables have on the dependent variables.
15. ANOVA is helpful for three or more variables. It is similar to two sample t-tests. ANOVA groups differences by comparing the means of each group and includes spreading out the variance into diverse sources