

EC0254

_____ defined as the difference between the sample statistic (s) and the population parameter being estimated (P).

sampling error

A statistical test in which the critical area of a distribution is one-sided so that it is either greater than or less than a certain value, but not both is _____

One tailed test

A regression analysis with one explanatory variable is called a _____

Simple Regression

One of the uses of statistics is to make a _____

Decisive decision

Alternative hypothesis is denoted as _____

H1

_____ is said to be a measurement of how expectations are compared to results.

Chi-square

The regression equation for predicting number of speeding tickets (Y) from information about driver age (X) is $Y = -.065(X) + 5.57$. How many tickets would you predict for a twenty-year-old?

4.27

_____ is a statistical process for estimating the relationship among variables.

Regression analysis

Regression analysis is widely used for _____ and Forecasting

Prediction

Regression analysis is a statistical process for estimating the relationship among _____

Variables

_____ is generally performed on a small set of data.

T test

The calculation of sampling distribution is a step forward to look at different ways of obtaining distribution of proportion process of _____ data

Pooled

{100:SHORTANSWER:%100%Negative}Negative

{100:SHORTANSWER:%100%positive}positive

_____ of additivity is an approach used in ANOVA (that is a region analysis involving two qualitative factors) to detect whether the factor variables are additively related to the expected value of the response variables.

Turkey's Test

_____ is a statistical test that is used on paired nominal data

McNemar's Test

_____ statistics are collections of test statistics that is used for the analysis of stratified categorical data

Cochran - Mantel

_____ occurs when/if an hypothesis (Null hypothesis) is rejected when it should be accepted and this occurs when the hypothesis value falls within acceptance region..

type 1 error

A _____ can said to be a measurement of how expectations are compared to results.

Chi-square

Type 2 error is a situation when one accepts the hypothesis when it should be _____

Rejected

An _____ can be defined as any statistical test in which the test statistics has an F distribution under a null hypothesis situation and it is usually used when comparing statistical models in a data set so that we can identify the mode that best fits the population where the date were sampled

F-test

The probability (or risk) or committing type 2 error is denoted by the Greek letter _____

*** β ***

A t-test is any statistical test in which the test statistic follows a student's t _____ if the null hypothesis is supported.

Distribution

A _____ is the set of all possible values of a particular statistic

sampling distribution

A _____ connects the midpoints of the tops in the histogram

Frequency polygon

The probability (or risk) or committing type 1 error on a true null hypothesis is denoted by the Greek letter _____

*** α ***

Matching is carried out by identifying pairs of values consisting of one observation from each of the two _____

Samples

In an experimental research, the scientist may have two groups, an experimental group and a _____

control group

The explained variable from the equation $Z = B_0 + B_1X_1 + B_2X_2$ is _____

Z

Interval estimation involves estimating an interval which is known as _____

confidence interval

Another technique that can be employed with respect to the issue of rejecting or accepting H_0 is _____

interval estimation

The _____ curve is one of the most popular models used in statistical tests of hypothesis

Normal

The standard deviation of the sampling distribution is known as the _____

standard error

The two tailed test gets its name from testing the area under both of the tails (sides) of a _____

normal distribution

The one tailed test gets its name from testing the area under one of the tails (sides) of a _____

normal distribution

In test of hypothesis, the maximum probability of risking a type 1 error is known as the _____

level of significance

A _____ distribution is a probability distribution that has a probability density function.

Discrete probability

The values of a parameter and that of the corresponding statistics are not always the same _____

Population

A regression analysis is inappropriate when _____

There is heteroscedasticity in the scatter plot.

_____ measure is the standard way of assigning a measure to a subsets of an n-dimensional volume

Lebesgue

When a die is thrown once, the probability of getting one is _____

0.1667

Probability distributions is used for so many purpose such as _____

measurement of different possible outcome and a random experiment

_____ is a tentative statement in a statistical analysis

None of the Options

_____ shows the distributions of probabilities associated with values or ranges of a random variable.

Probability distributions

The two types of hypothesis are _____ and _____ hypothesis

Null and Alternative

Three out of the 9 finalists in an African American beauty competition are Nigerians. If two winner are to be selected, find the probability that; at least one of them would be a Nigerian.

0.58

When an equation is in a general term in a multinomial expansion it is called _____

Multinomial distribution

H1 in hypothesis testing is _____

None of the Options

If an individual were selected at random from a large group of adult females, the probability that it has height M is precisely 68 inches (that is 68.00 inches) would be zero. What is the probability that M is between 67.00 inches and 68.00 inches.

None of the Options

_____ is a random variables that we assigns a probability to each possible value

Discrete random variables

In a statistics examination for secondary students, the 23 females used in the study has a mean score of 81 and a variance of 12 while the 20 males used has a mean score of 78 and a variance of 10. Do you think gender have an effect on the score of the secondary student at 99% level significance?

None of the Options

The Cauchy distribution is named after _____

None of the Options

A _____ is any statistical test in which the test statistic follows a student's t distribution if the null hypothesis is supported.

T test

_____ error occurs when/if an hypothesis is rejected when it should be accepted

Type 1

The numerical value of the decision rule is called _____

All of the Options

A coin also has a uniform distribution because the _____ in a coin toss is the same

Probability of getting either heads or tails

Calculate the variance of uniform distribution given that $(a + b) = 6/200$ and $b = 2.20$ while $a = 1.10$

None of the Options

An F test is a statistical test in which the test statistics has _____ distribution under a null hypothesis situation

None of the Options

In statistical analysis the 99% confident level is also known as _____

0.01

Null hypothesis is denoted as _____

H_0

A deck of cards has a uniform distribution because the likelihood of drawing a heart, a club, a diamond or spade is equally _____

Likely

_____ is used to determine all reasonably likely values of the difference between two population means

None of the Options

A graph for frequency distribution can be supplied by a _____

All of the Options

H_0 in hypothesis testing is a ____

None of the Options

When a random variable takes values from a continuous probabilities that are non- zero, this can only refer to _____

Infinite intervals

_____ statistical test in which the critical area of a distribution is one-sided

One-tailed test

One-tailed tests are used for asymmetric distributions that have a _____

single tail

_____ are those parameters that are used in estimating variables of selected population parameters.

Sample parameters

The t-statistics was introduced in _____

1908

_____ test is used when testing for independence in a contingency table

None of the Options

The t-statistic was introduced by Willian Sealey Gosset, a _____ working for Guinness Brewery in Dublin Finland

None of the Options