

The form of the alternative hypothesis can be one or two-tailed

In hypothesis testing the type of the test to be used (one or two tailed) is determined by Alternative hypothesis

In hypotheses testing, the test value is obtained from Test statistic

In a two tailed test, the level of significance is Divided by 2

The fraction or ratio of a sample possessing a certain trait is called a Proportion

A random or unbiased assignment of individuals or items to treatment groups in order to average out extraneous (or nuisance) factor is called Randomization

ANOVA F-test is said to be significant if the alternative hypothesis of equality of treatment means is rejected based on the test criteria.

What is the probability that two female students will be selected at random, one after the other, to participate in a research project from a class of 7 male and 3 female students?  
 $\frac{1}{15}$

Two random samples each of size 18 was selected from two normal populations, A and B, respectively. To determine if significant difference exists in the population means. Assume that the samples are related, the degrees of freedom for the test to be carried out is  
35

The probability that Tope passes an exam is  $\frac{1}{3}$  and probabilities that his brother and sister pass the same exam are  $\frac{2}{5}$  and  $\frac{3}{8}$  respectively. Find the probability that the three of them will fail the exam.  
 $\frac{1}{4}$