1. Cutlets:

H0 = There is no significant difference in cutlet diameter at 5% significance level.

H1 = There is significant difference in cutlet diameter at 5% significance level.

Unit A N = 35, average = 7.019091, standard deviation = 0.288408

Unit B N = 35, average = 6.964297, standard deviation = 0.343401

Solution:

Ttest\_indResult(statistic=0.7228688704678063, pvalue=0.4722394724599501)

As pvalue >0.05 (5% significance interval), we accept H0.

1. LabTat:

H0 = There is no significant difference in average turnaround time between different laboratories at 5% significance level.

H1 = There is significant difference in average turnaround time between different laboratories at 5% significance level.

Solution:

Anova Result pvalue= 2.1156708949992414e-57

As the p value < 0.05 (5% significance interval), we reject H0.

1. Buyer ratio:

H0 = All proportions are equal

H1 = Not all proportions are equal (at least one of the proportions is unequal)

Solution:

Chi square test p value is 0.6603094907091882

As the Chi square test p value is > alpha (0.05), we accept H0.

1. Costomer order form:

H0 = Centre wise defective % are equal

H1 = Not all defective % are equal Centre wise

Solution:

Chi Square test is 0.2771020991233135

As the Chi square test p value is > alpha (0.05), we accept H0.