Assignment 5.3

@ Calculate & Test for given 10,20,30,40,50 & 5,10,15,20,25 For -10,20,30,40,50:

Given geroups (Solution)

91: 10,20,30,40,50

92: 5,10,15,20,25

ZG T

S12 = 250

GI 150

82 = 62.5

Where Si2 & Si2 are variance of two groups.

Calculation of variance

62= Σ (0-μ)

where μ is average of all No, in the set

N is total number of elements in the set;

(10-30)+(20-30)+(30-30)+(40-30)+(50-30)

400 + 100+6 + 100+ 400 = 1000 = 250

92= (5-15) +(10-15) +(15-15) +(20-15) +(25-15)

 $= \frac{(-10)^{\frac{1}{2}}+(-5)^{\frac{1}{2}}+(0)^{\frac{1}{2}}+(5)^{\frac{1}{2}}+(16)}{5} = \frac{250}{5} = 62.5$

Fralu = 51 = 250 = 4

For For 2 degree of freedom of denominator = 5-1=4.

From F-table we take K1=4,K1=4, & = 0.05

For from table = 6:38 Fralue < Fev ... We fail to seject rull hypothesis =7