Problem​ ​Statement​ ​1:

Calculate F Test for given 10, 20, 30, 40, 50 and 5,10,15, 20, 25.

For 10, 20, 30, 40, 50:

Solution:

To calculate the F value,

Set1: 10, 20, 30, 40, 50

Total: 5

Mean = 30

Standard Deviation: 15.8114

Variance: 250

Set2: 5, 10, 15, 20, 25

Mean = 15

SD = 7.9057

Variance = 62.5

F Test = Var of Set1 / Var of Set2 = 250/62.5 = 4