

Assignment\_19.2

Sample means (2) for the group: 48.2, 354, 69.8

Intermediate steps in calculating group variances

Group. I

	value	mean	deviations	sq. de viations
2	51	48.2	2-8	7.84
2	45	48.2	-3.2	10.24
3	33	48.2	-15.2	231.04
4	45	48.2	-3.2	10.24
5	67	48.2	18.8	353.44.

Group-II

	Value	Mean	Deviatins	Sq. of deviation
1	23	35.4	-12.4	153.76
2	43	35.4	7.6	57.76
3	28	35.4	-12.4	158.76
4	43	35.4	7.6	57.76
5	45	85.4	a.e	92.16

Group III

	Yalue	Mean	Deviations	Sq. of deviation
1	56	69.8	-13.8	190.44
2	76	69.9	6.2	38.44
3	74	69.8	4.2	17.64
4	87	69.8	17.2	295.84
5	EC	C9.0	-13.8	190.44



-Bun of squared devoations from the onean (SS) for The groups:-

Group. I - 612.8, Group 2 = 515.2, Group. 3 = 732.8

 $Var_1 = 612.8 = 153.2.$ 

Van 2 = 515.2 = 128.8.

Vars = 732.8 = 183.2.

MSerror = 158.2 + 128.8 + 183.2 = 155.0

Calculating the remaining error terms for the ANOVA table;

dferror = 15-3 = 12

SSerra = (155.07) a(15-3) = 1860.8.

Intermediate steps in calculating the variance of the sample means r

Grandmean (Figural) = 48.2+35.4+69.8 = 51.13

Group mean Grand mean Devications Sq. Deviction. 48.2 51.13 -2.93 8.58 -15.7335.4 51.13 247.43 69.8 51.13 18.67 348.57.

विन्ती विका भी मनार भागा के।



Sum of sequences (SS mean) = 604.58.

Var. (mean) = 604.58 = 302.29.

MS between = (302 29)(5) = 1511.45

dfgroups = 3-1=2

SSgroups = (1511.45) x (3-1) = 3022.9.

- Test statistic and Critical value.

F = 1511.45 = 9.75.

Ferifical (2,12) = 3.89.

Decision: reject 40

Anova (ANOVA) table.

5
gr 105

Effect size

 $2^2 = 3022.9 = 0.62.$ 

APA write up.

F(2,12) = 9.75, p<0.05, 7=0.62.