

✓ 11. On a feeding experiment, a farmer has four types of hogs, denoted by A, B, C and D. These types are each divided into three groups, which are fed on different kinds of rations I, II and III. The following results were obtained, the numbers in the table being the gains in weight (in kilograms) in the various groups; there being two hogs in each groups.

	I	II	III
A	3.0 3.6	6.1 4.9	4.5 5.6
B	7.0 8.2	7.0 6.1	8.5 7.1
C	4.5 6.0	7.0 5.0	4.2 4.0
D	9.0 11.0	14.0 13.0	9.0 10.0

Analyse the data and (i) State whether the response to different rations is effected by differences in breed (ii) Do breeds differ significantly?

✓ 12. In a greenhouse experiment on wheat, four fertilizer treatments of the soil and four chemical treatments of the seed were used. Each combination was applied to two plots which were placed at random in the available space. The table gives the yield in some suitable unit. Analyse the data.

Fertilizer	Chemical treatment							
	1		2		3		4	
1	21.4,	21.2	20.9,	20.3	19.6,	18.8	17.6,	16.6
2	12.0,	14.2	13.6,	13.3	13.0,	13.7	13.3,	14.0
3	13.5,	11.9	14.0,	15.6	12.7,	12.9	12.4,	13.7
4	12.8,	13.8	14.1,	13.2	14.2,	13.6	12.0,	14.6