

NOTE Q: DATA ENTRY FOR ANOVAS IN THE DATA ANALYSIS TOOL PAC

ANOVA: SINGLE FACTOR

Build up a data table as shown below

G1	G2	G3	G4
1-d1	2-d1	3-d1	4-d1
1-d2	2-d2	3-d2	4-d2
1-d3	2-d3	3-d3	4-d3
1-d4	2-d4	3-d4	4-d4
1-d5	2-d5	3-d5	4-d5
1-d6	2-d6	3-d6	4-d6

G1 to G4 are group names. These names appear in the SUMMRY output under “Groups”, if the label box on the input form is checked. If no labels, then the groups are identified as column 1, column 2, etc.

There should be no blanks or missing data within the selected range block.

For the input menu “Input Range:” mark off the entire table of columns and rows. In the example, that would be 4 columns and 7 rows, with the label box checked.

ANOVA: TWO-FACTOR WITHOUT REPLICATION

Build up a data table as shown below

	F1-L1	F1-L2	F1-L3	F1-L4
F2-L1	11-d1	21-d1	31-d1	41-d1
F2-L2	12-d1	22-d1	32-d1	42-d1
F2-L3	13-d1	23-d1	33-d1	43-d1
F2-L4	14-d1	24-d1	34-d1	44-d1

F1 and F2 are names for each of the two variables

F1-L2 means the F1 variable name and L1 level name for the column

F2-L1 means the F2 variable name and L1 level name for the row

There should be no blanks or missing data in the interior table.

For the input menu “Input Range:” mark off the entire table of columns and rows. In the example, that would be 5 columns and 5 rows.

ANOVA: TWO-FACTOR WITH REPLICATION

Build up a data table as shown below

	F1-L1	F1-L2	F1-L3	F1-L4
F2-L1	11-d1	21-d1	31-d1	41-d1
	11-d2	21-d2	31-d2	41-d2
	11-d3	21-d3	31-d3	41-d3
F2-L2	12-d1	22-d1	32-d1	42-d1
	12-d2	22-d2	32-d2	42-d2
	12-d3	22-d3	32-d3	42-d3

F1 and F2 are names for each of the two variables

F1-L2 means the F1 variable name and L1 level name for the column

F2-L1 means the F2 variable name and L1 level name for the row group

For three duplicate measurements at each level combination

11-d1 is the number for the first measurement at level 11

11-d2 is the number for the second measurement at level 11

11-d3 is the number for the third measurement at level 11

There should be no blanks or missing data in the interior table.

For the input menu "Input Range:" mark off the entire table of columns and rows. In the example, that would be 5 columns and 7 rows.

For the "Rows per Sample:" enter a number for the number of duplicates. For the example, 3 is entered.