

```

DATA SUPERFICIE;
INPUT
TRAT N      K      RESP ;
FA=TRAT;
CARDS;
1 100 90      70
1 100 90      72
1 100 90      68
2 100 110     90
2 100 110     92
2 100 110     89
3 100 130     83
3 100 130     87
3 100 130     80
4 130 90      90
4 130 90      95
4 130 90      85
5 130 110     110
5 130 110     105
5 130 110     115
6 130 130     95
6 130 130     105
6 130 130     100
7 160 90      100
7 160 90      110
7 160 90      95
8 160 110     118
8 160 110     120
8 160 110     125
9 160 130     115
9 160 130     110
9 160 130     105
;
PROC PRINT; RUN;
PROC GLM;
CLASS N K;
MODEL RESP= N K N*K;
MEANS N K /T LINES
LSMEANS N*K/T LINES;
RUN;
PROC RSREG;
MODEL RESP= N K/LACKFIT;
RUN;
PROC GLM;
CLASS FA;
MODEL RESP = N N*N K K*K N*K FA/SS1;
RUN;

```

Dependent Variable: RESP

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	5858.296296	732.287037	34.69	<.0001
Error	18	380.000000	21.111111		
Corrected Total	26	6238.296296			

R-Square	Coeff Var	Root MSE	RESP Mean
0.939086	4.718769	4.594683	97.37037

Source	DF	Type I SS	Mean Square	F Value	Pr > F
N	1	3960.500000	3960.500000	187.60	<.0001
N*N	1	93.351852	93.351852	4.42	0.0498
K	1	501.388889	501.388889	23.75	0.0001
K*K	1	1280.907407	1280.907407	60.67	<.0001
N*K	1	18.750000	18.750000	0.89	0.3585
FA	3	3.398148	1.132716	0.05	0.9831