

SAS PROCs and output for Recall Experiment

```

DATA RECALL;
  INPUT REINFORC ISOLATE TRTMNT RECALL @@;
CARDS;
0 20 1 18  0 20 1 24  0 20 1 26  0 20 1 20
0 40 2 35  0 40 2 31  0 40 2 26  0 40 2 30
0 60 3 13  0 60 3  8  0 60 3 14  0 60 3 19
1 20 4 19  1 20 4 17  1 20 4 23  1 20 4 25
1 40 5 27  1 40 5 28  1 40 5 23  1 40 5 24
1 60 6 36  1 60 6 30  1 60 6 28  1 60 6 32
PROC ANOVA;
  CLASS REINFORC ISOLATE;
  MODEL RECALL = REINFORC ISOLATE REINFORC*ISOLATE;
  MEANS REINFORC ISOLATE REINFORC*ISOLATE;
  MEANS ISOLATE/LSD;
RUN;

```

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
REINFORC	2	0 1
ISOLATE	3	20 40 60

Number of observations in data set = 24

Dependent Variable: RECALL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	896.000000	179.200000	13.78	0.0001
Error	18	234.000000	13.000000		
Corrected Total	23	1130.000000			

R-Square	C.V.	Root MSE	RECALL Mean
0.792920	15.02313	3.60555	24.0000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
REINFORC	1	96.000000	96.000000	7.38	0.0141
ISOLATE	2	196.000000	98.000000	7.54	0.0042
REINFORC*ISOLATE	2	604.000000	302.000000	23.23	0.0001

Analysis of Variance Procedure

Level of REINFORC	N	Mean	SD
0	12	22.0000000	8.09039835
1	12	26.0000000	5.34279464

Level of ISOLATE	N	Mean	SD
20	8	21.5000000	3.4226139
40	8	28.0000000	3.9279220
60	8	22.5000000	10.3094963

Level of REINFORC	Level of ISOLATE	N	Mean	SD
0	20	4	22.0000000	3.65148372
0	40	4	30.5000000	3.69684550
0	60	4	13.5000000	4.50924975
1	20	4	21.0000000	3.65148372
1	40	4	25.5000000	2.38047614
1	60	4	31.5000000	3.41565026

T tests (LSD) for variable: RECALL

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.05 df= 18 MSE= 13

Critical Value of T= 2.10

Least Significant Difference= 3.7875

Means with the same letter are not significantly different.

T Grouping	Mean	N	ISOLATE
A	28.000	8	40
B	22.500	8	60
B			
B	21.500	8	20

```

PROC ANOVA;
  CLASS TRTMNT;
  MODEL RECALL = TRTMNT;
  MEANS TRTMNT/BON;
RUN;

```

```

      Class      Levels      Values
      TRTMNT          6      1 2 3 4 5 6

```

Number of observations in data set = 24

Dependent Variable: RECALL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	896.000000	179.200000	13.78	0.0001
Error	18	234.000000	13.000000		
Corrected Total	23	1130.000000			

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TRTMNT	5	896.000000	179.200000	13.78	0.0001

Bonferroni (Dunn) T tests for variable: RECALL

NOTE: This test controls the type I experimentwise error rate, but generally has a higher type II error rate than REGWQ.

Alpha= 0.05 df= 18 MSE= 13
 Critical Value of T= 3.38
 Minimum Significant Difference= 8.6183

Means with the same letter are not significantly different.

Bon Grouping	Mean	N	TRTMNT
A	31.500	4	6
A			
B A	30.500	4	2
B A			
B A C	25.500	4	5
B C			
B D C	22.000	4	1
D C			
D C	21.000	4	4
D			
D	13.500	4	3