The SAS System

The GLM Procedure

Class Level Information		
Class	Levels	Values
a	3	1 2 3
b	2	1 2

Number of Observations Read	18
Number of Observations Used	18

The SAS System

The GLM Procedure

Dependent Variable: bloodsugar

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	683.6111111	136.7222222	22.79	<.0001
Error	12	72.0000000	6.0000000		
Corrected Total	17	755.6111111			

R-Square	Coeff Var	Root MSE	bloodsugar Mean
0.904713	10.99522	2.449490	22.27778

Source	DF	Type I SS	Mean Square	F Value	Pr > F
a	2	611.4444444	305.7222222	50.95	<.0001
b(a)	3	72.1666667	24.0555556	4.01	0.0344

Source	DF	Type III SS	Mean Square	F Value	Pr > F
a	2	611.4444444	305.7222222	50.95	<.0001
b(a)	3	72.1666667	24.0555556	4.01	0.0344

The SAS System

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

a	bloodsugar LSMEAN	LSMEAN Number
1	17.6666667	1
2	18.6666667	2
3	30.5000000	3

Least Squares Means for effect a
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: bloodsugar

i/j	1	2	3
1		0.7640	<.0001
2	0.7640		<.0001
3	<.0001	<.0001	

a	bloodsugar LSMEAN	95% Confidence Limits	
1	17.666667	15.487854	19.845479
2	18.666667	16.487854	20.845479
3	30.500000	28.321187	32.678813

Least Squares Means for Effect a				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	-1.000000	-4.772885	2.772885
1	3	-12.833333	-16.606219	-9.060448
2	3	-11.833333	-15.606219	-8.060448

The SAS System

The GLM Procedure

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The SAS System

The GLM Procedure

Dependent Variable: bloodsugar

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Source	DF	Type III SS	Mean Square	F Value	Pr > F
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b(a)	3	72.1666667	24.0555556	4.01	0.0344

Parameter	Estimate	Standard Error	t Value	Pr > |t|	96.667% Confidence Limits	
B-1 vs. B-2 within A=1	-4.00000000	2.00000000	-2.00	0.0687	-8.80618965	0.80618965
B-1 vs. B-2 within A=2	2.66666667	2.00000000	1.33	0.2072	-2.13952298	7.47285631
B-1 vs. B-2 within A=3	-5.00000000	2.00000000	-2.50	0.0279	-9.80618965	-0.19381035