

The GLM Procedure

Class Level Information		
Class	Levels	Values
Material	3	1 2 3
Temperature	3	125 15 70

Number of Observations Read	36
Number of Observations Used	36

The GLM Procedure**Dependent Variable: Hour**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	59416.22222	7427.02778	11.00	<.0001
Error	27	18230.75000	675.21296		
Corrected Total	35	77646.97222			

R-Square	Coeff Var	Root MSE	Hour Mean
0.765210	24.62372	25.98486	105.5278

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Material	2	10683.72222	5341.86111	7.91	0.0020
Temperature	2	39118.72222	19559.36111	28.97	<.0001
Material*Temperature	4	9613.77778	2403.44444	3.56	0.0186

The MEANS Procedure

Variable	Mean	Std Dev	Variance	Coeff of Variation
Hour	105.5277778	47.1007953	2218.48	44.6335518
Hour_predicted	105.5277778	41.2020188	1697.61	39.0437661
Hour_residuals	-2.36848E-15	22.8227643	520.8785714	-9.636056E17
Hour_residuals_Student	-1.11022E-16	1.0141851	1.0285714	-9.134967E17

Variance Components Estimation Procedure

Type 1 Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	Expected Mean Square
Material	2	10684	5341.861111	Var(Error) + Q(Material,Material*Temperature)
Temperature	2	39119	19559	Var(Error) + Q(Temperature,Material*Temperature)
Material*Temperature	4	9613.777778	2403.444444	Var(Error) + Q(Material*Temperature)
Error	27	18231	675.212963	Var(Error)
Corrected Total	35	77647		

Type 1 Estimates	
Variance Component	Estimate
Var(Error)	675.21296