

## Response Price

### Summary of Fit

RSquare	0.960217
RSquare Adj	0.952566
Root Mean Square Error	85.62215
Mean of Response	1327.156
Observations (or Sum Wgts)	32

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	5	4600584.3	920117	125.5078
Error	26	190609.9	7331	Prob > F
C. Total	31	4791194.2		<.0001

### Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	-1438.882	114.6966	-12.55	<.0001
Age	13.046149	0.609622	21.40	<.0001
Bidders	97.741224	6.04113	16.18	<.0001
(Age-144.938)*(Bidders-9.53125)	1.1233921	0.230294	4.88	<.0001
(Age-144.938)*(Age-144.938)	-0.003711	0.027325	-0.14	0.8930
(Bidders-9.53125)*(Bidders-9.53125)	-4.129013	2.133053	-1.94	0.0638

### Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Age	1	1	3357494.1	457.9763	<.0001
Bidders	1	1	1919072.7	261.7696	<.0001
Age*Bidders	1	1	174449.0	23.7956	<.0001
Age*Age	1	1	135.2	0.0184	0.8930
Bidders*Bidders	1	1	27470.2	3.7470	0.0638

## Response Price

### Summary of Fit

RSquare	0.960188
RSquare Adj	0.95429
Root Mean Square Error	84.05138
Mean of Response	1327.156
Observations (or Sum Wgts)	32

### Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	4	4600449.1	1150112	162.7986
Error	27	190745.1	7065	Prob > F
C. Total	31	4791194.2		<.0001

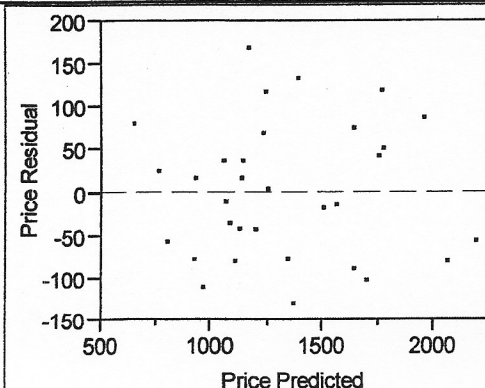
### Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	-1439.735	112.4233	-12.81	<.0001
Age	13.028812	0.585167	22.27	<.0001
Bidders	97.845889	5.881835	16.64	<.0001
(Age-144.938)*(Bidders-9.53125)	1.1319732	0.217392	5.21	<.0001
(Bidders-9.53125)*(Bidders-9.53125)	-4.150164	2.088331	-1.99	0.0571

### Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Age	1	1	3502184.7	495.7348	<.0001
Bidders	1	1	1955011.1	276.7321	<.0001
Age*Bidders	1	1	191547.3	27.1136	<.0001
Bidders*Bidders	1	1	27901.1	3.9494	0.0571

### Residual by Predicted Plot



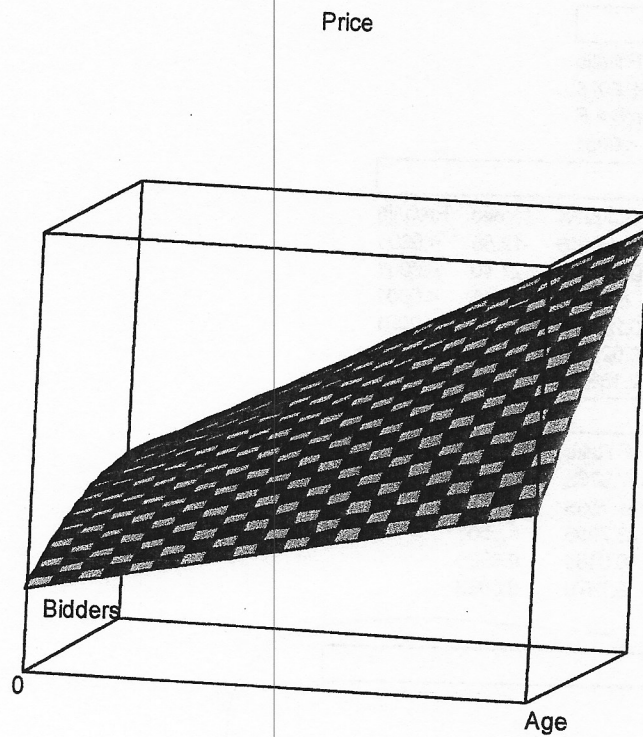
## Grandfather Clocks

Rows	Age	Bidders	Price
1	127	13	1235
2	115	12	1080
3	127	7	845
4	150	9	1522
5	156	6	1047
6	182	11	1979
7	156	12	1822
8	132	10	1253
9	137	9	1297
10	113	9	946
11	137	15	1713
12	117	11	1024
13	137	8	1147
14	153	6	1092
15	117	13	1152
16	126	10	1336
17	170	14	2131
18	182	8	1550
19	162	11	1884
20	184	10	2041
21	143	6	854
22	159	9	1483
23	108	14	1055
24	175	8	1545
25	108	6	729
26	179	9	1792
27	111	15	1175
28	187	8	1593
29	111	7	785
30	115	7	744
31	194	5	1356
32	168	7	1262

- Analyze

- Fit Model

NOTE: To obtain surface, click on red down arrow, select "Factor Profiling", then "Contour Profiler".



NOTE: In JMP, can click on above surface plot and rotate plot to get different views.