

JMP Output for Coded Regression

Response Strength with Full Model (X1, X2, X1X2)

Summary of Fit

RSquare	0.949206
RSquare Adj	0.936508
Root Mean Square Error	4
Mean of Response	47
Observations (or Sum Wgts)	16

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	3	3588.0000	1196.00	74.7500
Error	12	192.0000	16.00	Prob > F
C. Total	15	3780.0000		<.0001

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	47	1	47.00	<.0001
X1	12.5	1	12.50	<.0001
X2	2	1	2.00	0.0687
X1X2	8	1	8.00	<.0001

Response Strength with Reduced Model (X1, X1X2)

Summary of Fit

RSquare	0.932275
RSquare Adj	0.921856
Root Mean Square Error	4.437602
Mean of Response	47
Observations (or Sum Wgts)	16

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	3524.0000	1762.00	89.4766
Error	13	256.0000	19.69	Prob > F
C. Total	15	3780.0000		<.0001

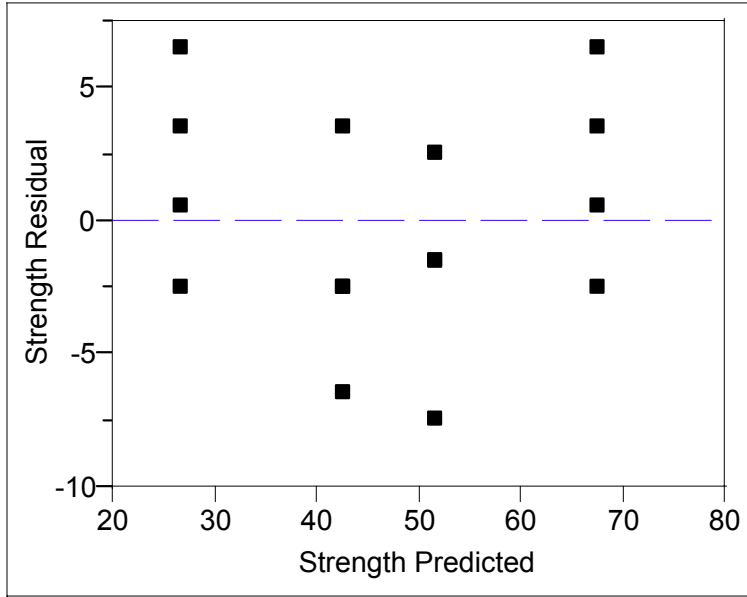
Lack Of Fit

Source	DF	Sum of Squares	Mean Square	F Ratio
Lack Of Fit	1	64.00000	64.0000	4.0000
Pure Error	12	192.00000	16.0000	Prob > F
Total Error	13	256.00000		0.0687
				Max RSq
				0.9492

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	47	1.1094	42.37	<.0001
X1	12.5	1.1094	11.27	<.0001
X1X2	8	1.1094	7.21	<.0001

Residual by Predicted Plot



Overlay Plot

