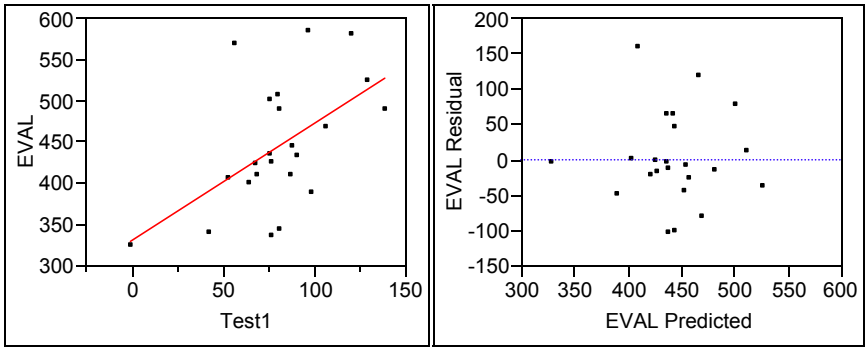
JMP output for Partial F-tests
Teacher Evaluation Data

Response: Evaluation
Explanatory: Test 1



Summary of Fit

RSquare	0.295324
RSquare Adj	0.261768
Root Mean Square Error	65.70313
Mean of Response	444.4783
Observations (or Sum Wgts)	23

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	37992.80	37992.8	8.8009
Error	21	90654.94	4316.9	Prob > F
C. Total	22	128647.74		0.0074

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	329.2262	41.19425	7.99	<.0001
Test1	1.4243941	0.480137	2.97	0.0074

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Test1	1	1	37992.802	8.8009	0.0074

Response: Evaluation
Explanatory: Test 1, Test 2

Summary of Fit

RSquare	0.367355
RSquare Adj	0.30409
Root Mean Square Error	63.79201
Mean of Response	444.4783
Observations (or Sum Wgts)	23

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	47259.34	23629.7	5.8066
Error	20	81388.40	4069.4	Prob > F
C. Total	22	128647.74		0.0103

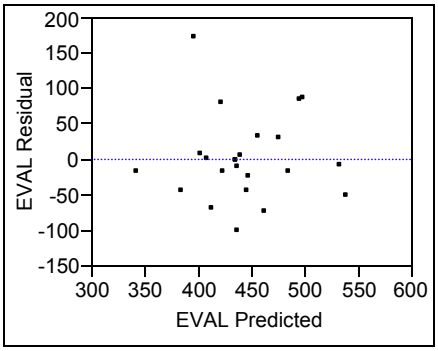
Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	129.37639	138.3452	0.94	0.3609
Test1	1.2214625	0.485181	2.52	0.0205
Test2	1.5114559	1.00162	1.51	0.1469

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Test1	1	1	25791.994	6.3380	0.0205
Test2	1	1	9266.538	2.2771	0.1469

Residual by Predicted Plot



Response: Evaluation
Explanatory: Test 1, Test 2, Test 3

Summary of Fit

RSquare	0.525691
RSquare Adj	0.4508
Root Mean Square Error	56.67022
Mean of Response	444.4783
Observations (or Sum Wgts)	23

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	3	67628.99	22543.0	7.0194
Error	19	61018.75	3211.5	Prob > F
C. Total	22	128647.74		0.0023

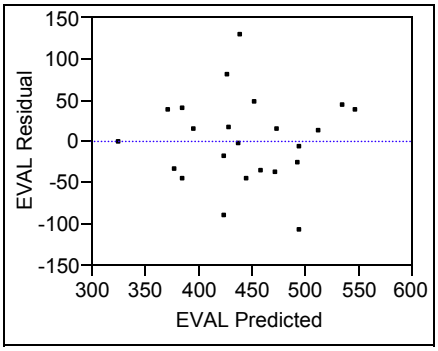
Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	255.66705	132.7368	1.93	0.0692
Test1	1.6168737	0.45872	3.52	0.0023
Test2	1.2171949	0.897437	1.36	0.1909
Test3	-2.076249	0.824409	-2.52	0.0209

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Test1	1	1	39899.337	12.4238	0.0023
Test2	1	1	5907.750	1.8396	0.1909
Test3	1	1	20369.646	6.3427	0.0209

Residual by Predicted Plot



Response: Evaluation
Explanatory: Test 1, Test 2, Test 3, Test 4

Summary of Fit

RSquare	0.802861
RSquare Adj	0.759052
Root Mean Square Error	37.53627
Mean of Response	444.4783
Observations (or Sum Wgts)	23

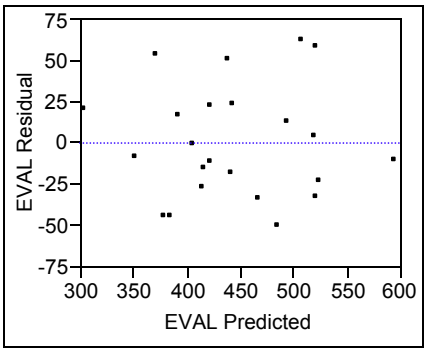
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	4	103286.25	25821.6	18.3265
Error	18	25361.49	1409.0	Prob > F
C. Total	22	128647.74		<.0001

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-193.4994	125.3074	-1.54	0.1399
Test1	1.1158539	0.319746	3.49	0.0026
Test2	2.243267	0.628449	3.57	0.0022
Test3	-1.367001	0.563965	-2.42	0.0261
Test4	6.0482387	1.202281	5.03	<.0001

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Test1	1	1	17159.597	12.1788	0.0026
Test2	1	1	17952.485	12.7416	0.0022
Test3	1	1	8278.197	5.8753	0.0261
Test4	1	1	35657.267	25.3073	<.0001

Residual by Predicted Plot