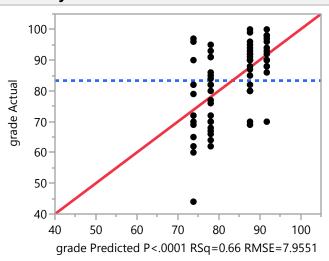
Actual by Predicted Plot



Effect Summary

Source	LogWorth								PValue
group	2.229		- !	- !	- !	- !	-	-	0.00591
gender	0.470		i	i	i	i	i	į	0.33879
group*gender	0.005	1 1	I	1	1	I I	ı I	I I	0.98910

Summary of Fit

RSquare 0.661825 RSquare Adj 0.645973 Root Mean Square Error 7.955144 Mean of Response 83.35294 Observations (or Sum Wgts) 68

AICc BIC 496.82 508.76

Parameter Estimates

Term	Estimate	Std Error	DFDen	t Ratio	Prob> t	Lower 95%	Upper 95%
Intercept	82.820833	2.093619	13	39.56	<.0001*	78.297845	87.343822
group[Method]	-6.879167	2.093619	13	-3.29	0.0059*	-11.40216	-2.356178
group[Method]*gender[F]	-0.029167	2.093619	13	-0.01	0.9891	-4.552155	4.4938219
gender[F]	-2.079167	2.093619	13	-0.99	0.3388	-6.602155	2.4438219

Random Effect Predictions

Term	BLUP	Std Error	DFDen	t Ratio	Prob> t	Lower 95%	Upper 95%
student[s1]	-0.583627	4.807127	16.51	-0.12	0.9048	-10.74879	9.5815368
student[s10]	13.553116	5.167926	13.6	2.62	0.0205*	2.438083	24.668148
student[s11]	-3.112677	4.807127	16.51	-0.65	0.5262	-13.27784	7.0524865
student[s12]	-2.645776	4.577015	19.32	-0.58	0.5699	-12.2148	6.9232483
student[s13]	1.0505286	4.577015	19.32	0.23	0.8209	-8.518495	10.619553
student[s14]	6.4977138	4.577015	19.32	1.42	0.1716	-3.07131	16.066738
student[s15]	-10.95922	5.167926	13.6	-2.12	0.0529	-22.07425	0.1558147
student[s16]	-2.593898	5.167926	13.6	-0.50	0.6238	-13.70893	8.5211349

Random Effect Predictions								
Term	BLUP	Std Error	DFDen	t Ratio	Prob> t	Lower 95%	Upper 95%	
student[s17]	-5.680636	4.577015	19.32	-1.24	0.2294	-15.24966	3.888388	
student[s2]	2.9181349	4.807127	16.51	0.61	0.5521	-7.247029	13.083299	
student[s3]	0.7781693	4.807127	16.51	0.16	0.8734	-9.386994	10.943333	
student[s4]	-5.758453	4.577015	19.32	-1.26	0.2233	-15.32748	3.8105711	
student[s5]	0.8559862	4.577015	19.32	0.19	0.8536	-8.713038	10.42501	
student[s6]	7.7427847	4.577015	19.32	1.69	0.1068	-1.826239	17.311809	
student[s7]	4.8246497	4.577015	19.32	1.05	0.3048	-4.744374	14.393674	
student[s8]	-1.400705	4.577015	19.32	-0.31	0.7629	-10.96973	8.1683192	
student[s9]	-5.486094	4.577015	19.32	-1.20	0.2452	-15.05512	4.0829303	

REML Variance Component Estimates								
Random		Var						
Effect	Var Ratio	Component	Std Error	95% Lower	95% Upper	Pct of Total		
student	0.8769856	55.499434	28.149106	0.3282	110.67067	46.723		
Residual		63.284314	12.532162	44.446132	97.325879	53.277		
Total		118.78375	29.51101	77.005647	206.99055	100.000		

⁻² LogLikelihood = 483.44300008

Note: Total is the sum of the positive variance components.

Total including negative estimates = 118.78375

Covariance Matrix of
Variance Component Estimates

Random		
Effect	student	Residual
student	792.37218	-39.26377
Residual	-39.26377	157.05507

Iterations							
		Norm					
lter	-2LogLike	Gradient	Parameters				
0	498.29804	52	0	108.3776			
1	483.443	7.354e-13	55.499434	63.284314			

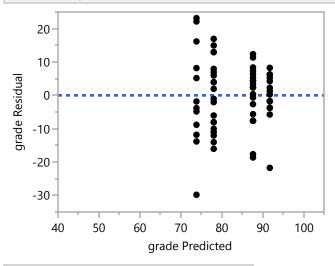
Iterations Converged in the Gradient

Fixed Effect Tests									
Source	Nparm	DF	DFDen	F Ratio	Prob > F				
group	1	1	13	10.7963	0.0059*				
group*gender	1	1	13	0.0002	0.9891				
gender	1	1	13	0.9862	0.3388				

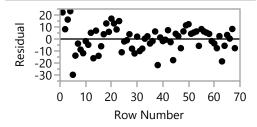
Prediction Expression

82.82083333333332

Residual by Predicted Plot

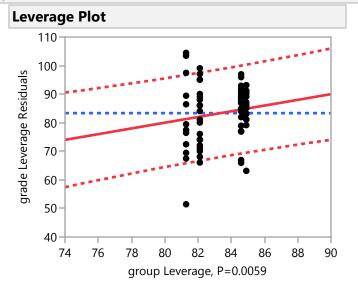


Residual by Row Plot



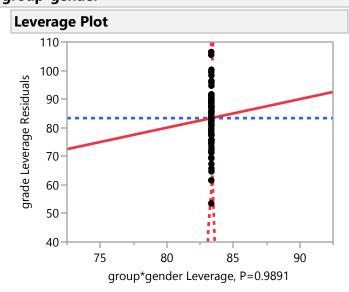
Effect Details

group



Least Squares Means Table Least Level Sq Mean Std Error Lower 95% Upper 95% Method 75.941667 3.0837318 69.279669 82.603664 NewMethod 89.700000 2.8325885 83.580565 95.819435

group*gender



Effect Details

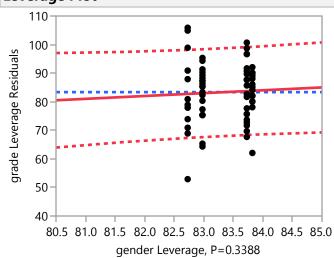
group*gender

Least Squares Means Table

	Least			
Level	Sq Mean	Std Error	Lower 95%	Upper 95%
Method,F	73.833333	4.8758081	63.299790	84.36688
Method,M	78.050000	3.7767847	69.890753	86.20925
NewMethod,F	87.650000	3.7767847	79.490753	95.80925
NewMethod,M	91.750000	4.2225736	82.627684	100.87232

gender

Leverage Plot



Least Squares Means Table								
	Least							
Level	Sq Mean	Std Error	Lower 95%	Upper 959				
F	80 741667	3 0837318	74 079669	87 40366				

2.8325885

78.780565

91.019435

student

Μ

Least Squares Means Table

84.900000

	Least			
Level	Sq Mean	Std Error	Lower 95%	Upper 95%
s1	82.237206	4.5336825	72.813951	91.66046
s10	96.373949	4.6734139	86.546335	106.20156
s11	79.708156	4.5336825	70.284901	89.13141
s12	80.175058	4.4477371	70.993619	89.35650
s13	83.871362	4.4477371	74.689923	93.05280
s14	89.318547	4.4477371	80.137109	98.49999
s15	71.861616	4.6734139	62.034001	81.68923
s16	80.226936	4.6734139	70.399322	90.05455
s17	77.140197	4.4477371	67.958759	86.32164
s2	85.738968	4.5336825	76.315713	95.16222

Effect Details

student

s9

Least Squares Means Table				
	Least			
Level	Sq Mean	Std Error	Lower 95%	Upper 95%
s3	83.599003	4.5336825	74.175748	93.02226
s4	77.062380	4.4477371	67.880942	86.24382
s5	83.676820	4.4477371	74.495381	92.85826
s6	90.563618	4.4477371	81.382180	99.74506
s7	87.645483	4.4477371	78.464045	96.82692
s8	81.420129	4.4477371	72.238690	90.60157

77.334740 4.4477371 68.153301

86.51618