


Response grade**Effect Summary**

Source	LogWorth		PValue
group	2.229		0.00591
gender	0.470		0.33879
group*gender	0.005		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

Parameter Estimates

Term	Estimate	Std Error	DFDen	t Ratio	Prob> t
Intercept	82.820833	2.093619	13	39.56	<.0001*
group[Method]	-6.879167	2.093619	13	-3.29	0.0059*
group[Method]*gender[F]	-0.029167	2.093619	13	-0.01	0.9891
gender[F]	-2.079167	2.093619	13	-0.99	0.3388

Random Effect Predictions

Term	BLUP	Std Error	DFDen	t Ratio	Prob> t
student[s1]	-0.583627	4.807127	16.51	-0.12	0.9048
student[s10]	13.553116	5.167926	13.6	2.62	0.0205*
student[s11]	-3.112677	4.807127	16.51	-0.65	0.5262
student[s12]	-2.645776	4.577015	19.32	-0.58	0.5699
student[s13]	1.0505286	4.577015	19.32	0.23	0.8209
student[s14]	6.4977138	4.577015	19.32	1.42	0.1716
student[s15]	-10.95922	5.167926	13.6	-2.12	0.0529
student[s16]	-2.593898	5.167926	13.6	-0.50	0.6238
student[s17]	-5.680636	4.577015	19.32	-1.24	0.2294
student[s2]	2.9181349	4.807127	16.51	0.61	0.5521
student[s3]	0.7781693	4.807127	16.51	0.16	0.8734
student[s4]	-5.758453	4.577015	19.32	-1.26	0.2233
student[s5]	0.8559862	4.577015	19.32	0.19	0.8536
student[s6]	7.7427847	4.577015	19.32	1.69	0.1068
student[s7]	4.8246497	4.577015	19.32	1.05	0.3048
student[s8]	-1.400705	4.577015	19.32	-0.31	0.7629
student[s9]	-5.486094	4.577015	19.32	-1.20	0.2452

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

Response grade**REML Variance Component Estimates**

-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

Iter	-2LogLike	Norm		Parameters	
		Gradient			
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