ANCOVA on Proof2 with Proof1 as a covariate

Between-Subjects Factors

ITEM1			N
A	TUTOR	BC	13
		FC	13
B	TUTOR	BC	13
		FC	13

Descriptive Statistics

Dependent Variable: PROOF2

ITEM1	TUTOR	Mean	Std. Deviation	N
A	BC	1.08	.862	13
	FC	1.15	1.068	13
	Total	1.12	.952	26
B	BC	.92	1.038	13
	FC	2.46	.776	13
	Total	1.69	1.192	26

Tests of Between-Subjects Effects

Dependent Variable: PROOF2

ITEM1	Source	Type III Sum of Squares	df	Mean Square	F	Sig.
A	Corrected Model	5.392[a]	3	1.797	2.291	.106
	Intercept	4.129	1	4.129	5.262	.032
	TUTOR	.129	1	.129	.164	.690
	PROOF1	5.278	1	5.278	6.727	.017
	TUTOR * PROOF1	.003	1	.003	.004	.950
	Error	17.262	22	.785		
	Total	55.000	26			
	Corrected Total	22.654	25			
B	Corrected Model	21.437[b]	3	7.146	11.148	.000
	Intercept	36.285	1	36.285	56.607	.000
	TUTOR	8.445	1	8.445	13.175	.001
	PROOF1	5.867	1	5.867	9.153	.006
	TUTOR * PROOF1	2.821	1	2.821	4.400	.048
	Error	14.102	22	.641		
	Total	110.000	26			
	Corrected Total	35.538	25			

a. R Squared = .238 (Adjusted R Squared = .134)

b. R Squared = .603 (Adjusted R Squared = .549)

ANCOVA on Proof2 with Proof1 as a covariate

Between-Subjects Factors

ITEM1			N
A	TUTOR	BC	13
		FC	13
B	TUTOR	BC	13
		FC	13

Descriptive Statistics

Dependent Variable: PROOF2

ITEM1	TUTOR	Mean	Std. Deviation	N
A	BC	1.08	.862	13
	FC	1.15	1.068	13
	Total	1.12	.952	26
B	BC	.92	1.038	13
	FC	2.46	.776	13
	Total	1.69	1.192	26

Tests of Between-Subjects Effects

Dependent Variable: PROOF2

ITEM1	Source	Type III Sum of Squares	df	Mean Square	F	Sig.
A	Corrected Model	5.389[a]	2	2.694	3.589	.044
	Intercept	4.323	1	4.323	5.760	.025
	TUTOR	.229	1	.229	.305	.586
	PROOF1	5.350	1	5.350	7.128	.014
	Error	17.265	23	.751		
	Total	55.000	26			
	Corrected Total	22.654	25			
B	Corrected Model	18.616[b]	2	9.308	12.651	.000
	Intercept	35.942	1	35.942	48.850	.000
	TUTOR	6.193	1	6.193	8.417	.008
	PROOF1	3.231	1	3.231	4.392	.047
	Error	16.922	23	.736		
	Total	110.000	26			
	Corrected Total	35.538	25			

a. R Squared = .238 (Adjusted R Squared = .172)

b. R Squared = .524 (Adjusted R Squared = .482)

Estimated Marginal Means

TUTOR

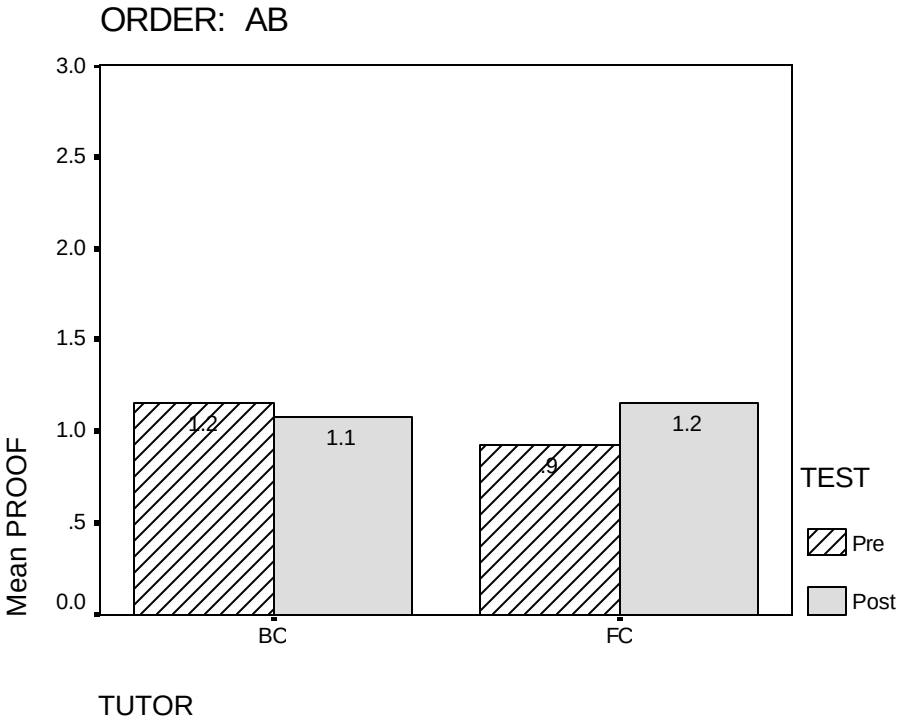
Dependent Variable: PROOF2

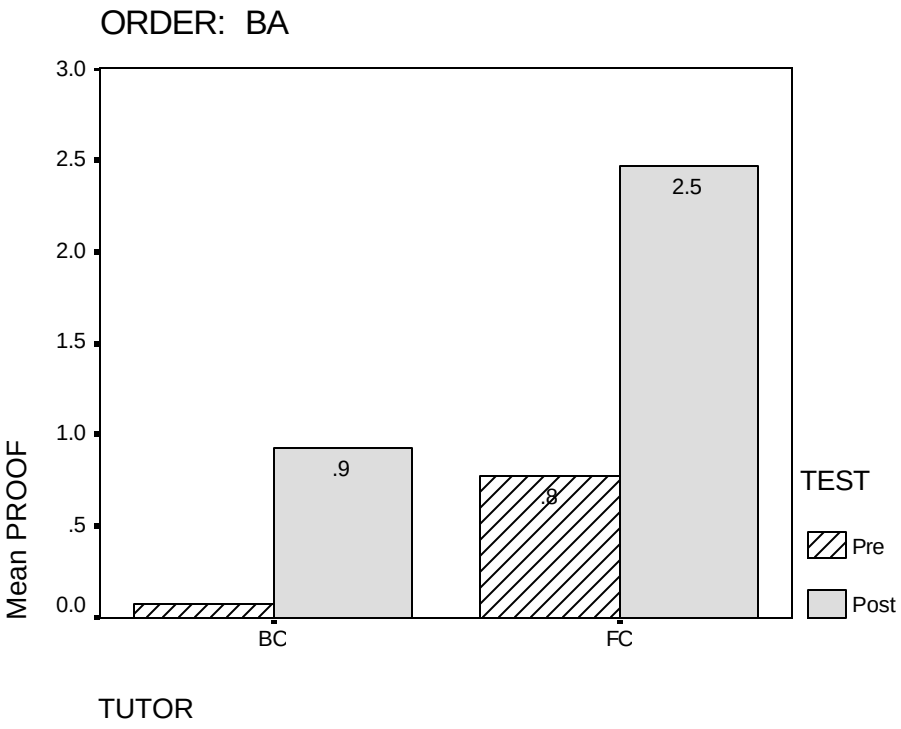
ITEM1	TUTOR	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
A	BC	1.021[a]	.241	.522	1.520
	FC	1.210[a]	.241	.711	1.709
B	BC	1.128[b]	.257	.596	1.660
	FC	2.257[b]	.257	1.725	2.789

a. Covariates appearing in the model are evaluated at the following values: PROOF1 = 1.04.

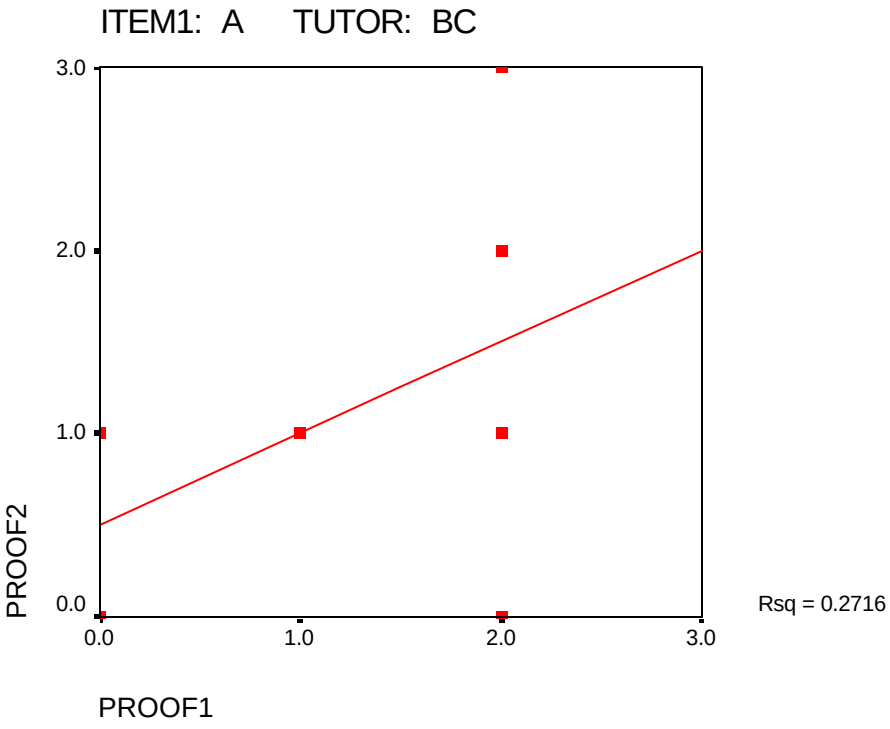
b. Covariates appearing in the model are evaluated at the following values: PROOF1 = .42.

Graph

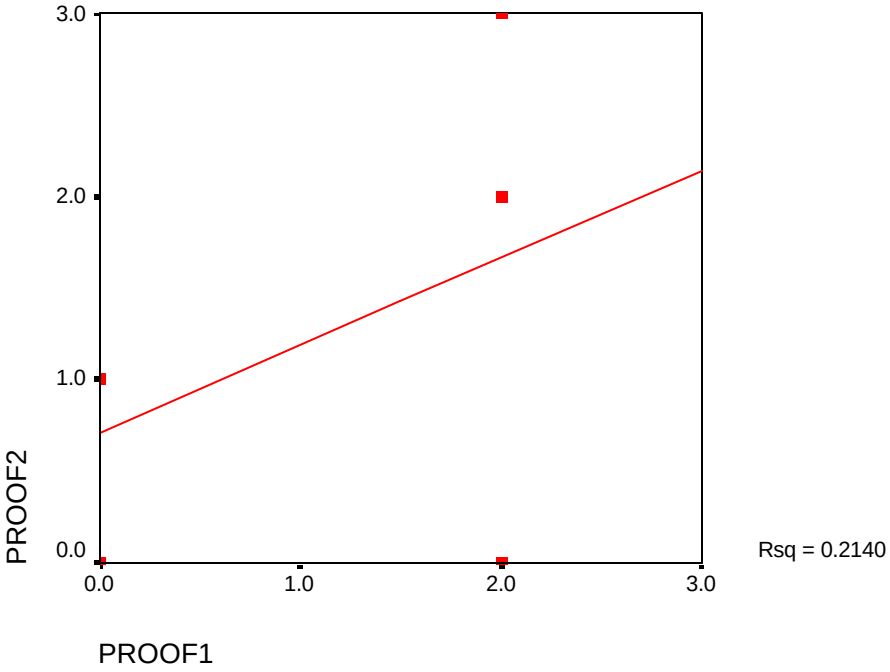



ORDER: BA
3.0
2.5
2.0
1.5
1.0
.5
0.0
Mean PROOF
.9
.8
2.5
BC
FC
TUTOR
TEST
Pre
Post

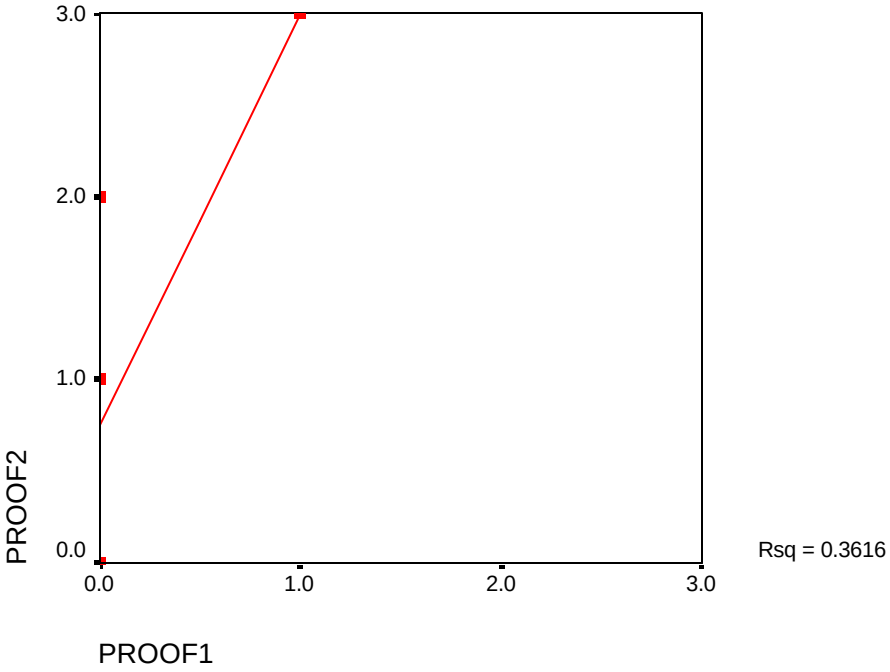
Graph

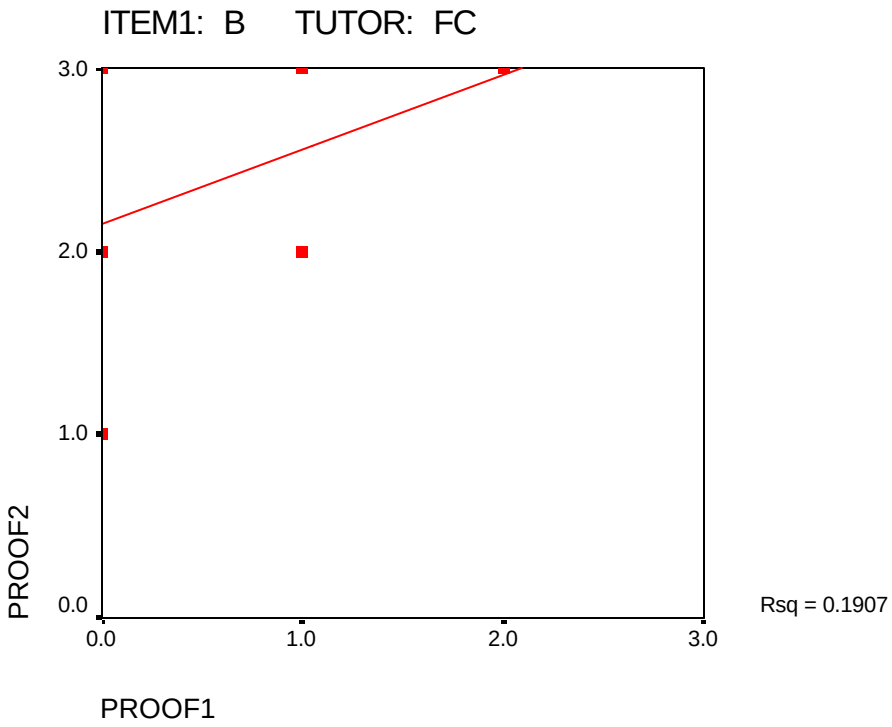

ITEM1: A TUTOR: BC
3.0
2.0
1.0
0.0
PROOF2
0.0
1.0
2.0
3.0
PROOF1
Rsq = 0.2716

ITEM1: A TUTOR: FC



ITEM1: B TUTOR: BC





Correlations between Proof test items

ITEM1 = A, TUTOR = BC

Descriptive Statistics[a]

	Mean	Std. Deviation	N
PROOF1	1.15	.899	13
PROOF2	1.08	.862	13

a. ITEM1 = A, TUTOR = BC

Correlations[a]

		PROOF1	PROOF2
PROOF1	Pearson Correlation	1	.521
	Sig. (2-tailed)	.	.068
	N	13	13
PROOF2	Pearson Correlation	.521	1
	Sig. (2-tailed)	.068	.
	N	13	13

a. ITEM1 = A, TUTOR = BC

ITEM1 = A, TUTOR = FC

Descriptive Statistics[a]

	Mean	Std. Deviation	N
PROOF1	.92	1.038	13
PROOF2	1.15	1.068	13

a. ITEM1 = A, TUTOR = FC

Correlations[a]

		PROOF1	PROOF2
PROOF1	Pearson Correlation	1	.463
	Sig. (2-tailed)	.	.111
	N	13	13
PROOF2	Pearson Correlation	.463	1
	Sig. (2-tailed)	.111	.
	N	13	13

a. ITEM1 = A, TUTOR = FC

ITEM1 = B, TUTOR = BC

Descriptive Statistics[a]

	Mean	Std. Deviation	N
PROOF1	.08	.277	13
PROOF2	.92	1.038	13

a. ITEM1 = B, TUTOR = BC

Correlations[a]

		PROOF1	PROOF2
PROOF1	Pearson Correlation	1	.601*
	Sig. (2-tailed)	.	.030
	N	13	13
PROOF2	Pearson Correlation	.601*	1
	Sig. (2-tailed)	.030	.
	N	13	13

*. Correlation is significant at the 0.05 level (2-tailed).

a. ITEM1 = B, TUTOR = BC

ITEM1 = B, TUTOR = FC

Descriptive Statistics[a]

	Mean	Std. Deviation	N
PROOF1	.77	.832	13
PROOF2	2.46	.776	13

a. ITEM1 = B, TUTOR = FC

Correlations[a]

		PROOF1	PROOF2
PROOF1	Pearson Correlation	1	.437
	Sig. (2-tailed)	.	.136
	N	13	13
PROOF2	Pearson Correlation	.437	1
	Sig. (2-tailed)	.136	.
	N	13	13

a. ITEM1 = B, TUTOR = FC