

Host

Notes

Output Created		23-JUN-2026 09:39:06
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output"'].
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.14

Host

Notes

Output Created		23-JUN-2026 09:39:06
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\png" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\png"'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.09

Host

Notes

Output Created		23-JUN-2026 09:39:06
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\tables" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\tables"'].
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:06
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\txt" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\txt"...
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.11

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\pdf" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\pdf"'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.13

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\spv" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\spv"'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav" mkdir "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav"'].
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\png*.png" 2>nul'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.11

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\tables*.csv" 2>nul'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\txt*.txt" 2>nul'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\pdf*.pdf" 2>nul'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.11

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\spv*.spv" 2>nul'].
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.10

Host

Notes

Output Created		23-JUN-2026 09:39:07
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Type III Sum of Squares\SPSS_Output\sav\type_iii_sum_of_squares_spss_ready_data.sav
	Active Dataset	TypeIISSData
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav*.sav" 2>nul'].
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.12

File "<string>", line 14

```
REPORT_LINES = ["SPSS Python environment check: started", f"Dataset: {DATA SET}"]
```

^

SyntaxError: invalid syntax

Unbalanced ANOVA - Type III Sum of Squares

```
>Warning # 2004.  Command name: SUBTITLE  
>The subtitle given exceeds 60 characters in length.  The first 60 characters  
>will be used.
```

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Crosstabs

Notes

Output Created		23-JUN-2026 09:39:08
Comments		
Input	Data	D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Syntax		CROSSTABS /TABLES=studytime BY school_id /CELLS=COUNT ROW COLUMN.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.03
	Dimensions Requested	2
	Cells Available	524245

[UnbalancedANOVAData] D:\DATA ANALYSIS\E ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
studytime * school_id	649	100.0%	0	0.0%	649	100.0%

studytime * school_id Crosstabulation

			school_id		Total
			1	2	
studytime	1	Count	119	93	212
		% within studytime	56.1%	43.9%	100.0%
		% within school_id	28.1%	41.2%	32.7%
	2	Count	206	99	305
		% within studytime	67.5%	32.5%	100.0%
		% within school_id	48.7%	43.8%	47.0%
	3	Count	71	26	97
		% within studytime	73.2%	26.8%	100.0%
		% within school_id	16.8%	11.5%	14.9%
	4	Count	27	8	35
		% within studytime	77.1%	22.9%	100.0%
		% within school_id	6.4%	3.5%	5.4%
Total	Count	423	226	649	
	% within studytime	65.2%	34.8%	100.0%	
	% within school_id	100.0%	100.0%	100.0%	

Means

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Notes

Output Created		23-JUN-2026 09:39:09
Comments		
Input	Data	D:\DATA ANALYSIS\IE ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
Syntax		MEANS TABLES=G3 BY studytime /CELLS=COUNT MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
G3 * studytime	649	100.0%	0	0.0%	649	100.0%

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Report

G3

studytime	N	Mean	Std. Deviation	Minimum	Maximum
1	212	10.8443	3.21862	.00	18.00
2	305	12.0918	3.24313	.00	19.00
3	97	13.2268	2.50210	8.00	18.00
4	35	13.0571	3.03841	6.00	19.00
Total	649	11.9060	3.23066	.00	19.00

Means

Notes

Output Created		23-JUN-2026 09:39:09
Comments		
Input	Data	D:\DATA ANALYSIS\IE ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Notes

Syntax	MEANS TABLES=G3 BY studytime BY school_id /CELLS=COUNT MEAN STDDEV MIN MAX.	
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.01

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
G3 * studytime * school_id	649	100.0%	0	0.0%	649	100.0%

Report

G3

studytime	school_id	N	Mean	Std. Deviation	Minimum	Maximum
1	1	119	11.5294	2.75504	.00	18.00
	2	93	9.9677	3.55531	.00	17.00
	Total	212	10.8443	3.21862	.00	18.00
2	1	206	12.7330	2.45378	1.00	18.00
	2	99	10.7576	4.16764	.00	19.00
	Total	305	12.0918	3.24313	.00	19.00
3	1	71	13.5634	2.24074	8.00	18.00
	2	26	12.3077	2.96337	8.00	18.00
	Total	97	13.2268	2.50210	8.00	18.00
4	1	27	13.4074	2.80466	10.00	19.00
	2	8	11.8750	3.68152	6.00	18.00
	Total	35	13.0571	3.03841	6.00	19.00
Total	1	423	12.5768	2.62564	.00	19.00
	2	226	10.6504	3.83399	.00	19.00
	Total	649	11.9060	3.23066	.00	19.00

Univariate Analysis of Variance

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Notes

Output Created		23-JUN-2026 09:39:09
Comments		
Input	Data	D:\DATA ANALYSIS\IE ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA G3 BY school_id studytime /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /PRINT=DESCRIPTIVE ETASQ HOMOGENEITY PARAMETER OPOWER /CRITERIA=ALPHA(.05) /DESIGN=school_id studytime school_id*studytime.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.06

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Between-Subjects Factors

		Value Label	N
school_id	1	GP	423
	2	MS	226
studytime	1		212
	2		305
	3		97
	4		35

Descriptive Statistics

Dependent Variable: G3

school_id	studytime	Mean	Std. Deviation	N
1	1	11.5294	2.75504	119
	2	12.7330	2.45378	206
	3	13.5634	2.24074	71
	4	13.4074	2.80466	27
	Total	12.5768	2.62564	423
2	1	9.9677	3.55531	93
	2	10.7576	4.16764	99
	3	12.3077	2.96337	26
	4	11.8750	3.68152	8
	Total	10.6504	3.83399	226
Total	1	10.8443	3.21862	212
	2	12.0918	3.24313	305
	3	13.2268	2.50210	97
	4	13.0571	3.03841	35
	Total	11.9060	3.23066	649

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
G3	Based on Mean	3.420	7	641	.001
	Based on Median	3.304	7	641	.002
	Based on Median and with adjusted df	3.304	7	483.824	.002
	Based on trimmed mean	3.376	7	641	.002

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Dependent variable: G3

b. Design: Intercept + school_id + studytime + school_id * studytime

Tests of Between-Subjects Effects

Dependent Variable: G3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	897.822 ^a	7	128.260	14.017	.000
Intercept	37166.619	1	37166.619	4061.722	.000
school_id	160.873	1	160.873	17.581	.000
studytime	319.327	3	106.442	11.632	.000
school_id * studytime	9.982	3	3.327	.364	.779
Error	5865.444	641	9.150		
Total	98761.000	649			
Corrected Total	6763.267	648			

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Tests of Between-Subjects Effects

Dependent Variable: G3

Source	Partial Eta Squared	Noncent. Parameter	Observed Power ^b
Corrected Model	.133	98.118	1.000
Intercept	.864	4061.722	1.000
school_id	.027	17.581	.987
studytime	.052	34.897	1.000
school_id * studytime	.002	1.091	.122
Error			
Total			
Corrected Total			

a. R Squared = .133 (Adjusted R Squared = .123)

b. Computed using alpha = .05

Parameter Estimates

Dependent Variable: G3

Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Intercept	11.875	1.069	11.103	.000	9.775	13.975
[school_id=1]	1.532	1.218	1.258	.209	-.859	3.924
[school_id=2]	0 ^a	.	.	.	.	.
[studytime=1]	-1.907	1.115	-1.711	.088	-4.096	.281
[studytime=2]	-1.117	1.112	-1.005	.315	-3.301	1.066
[studytime=3]	.433	1.223	.354	.724	-1.969	2.834
[studytime=4]	0 ^a	.	.	.	.	.
[school_id=1] * [studytime=1]	.029	1.288	.023	.982	-2.499	2.558
[school_id=1] * [studytime=2]	.443	1.273	.348	.728	-2.056	2.942
[school_id=1] * [studytime=3]	-.277	1.401	-.197	.844	-3.028	2.475

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Parameter Estimates

Dependent Variable: G3

Parameter	Partial Eta Squared	Noncent. Parameter	Observed Power ^b
Intercept	.161	11.103	1.000
[school_id=1]	.002	1.258	.242
[school_id=2]	.	.	.
[studytime=1]	.005	1.711	.401
[studytime=2]	.002	1.005	.171
[studytime=3]	.000	.354	.064
[studytime=4]	.	.	.
[school_id=1] * [studytime=1]	.000	.023	.050
[school_id=1] * [studytime=2]	.000	.348	.064
[school_id=1] * [studytime=3]	.000	.197	.054

Parameter Estimates

Dependent Variable: G3

Parameter	B	Std. Error	t	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
[school_id=1] * [studytime=4]	0 ^a	.	.	.	.	.
[school_id=2] * [studytime=1]	0 ^a	.	.	.	.	.
[school_id=2] * [studytime=2]	0 ^a	.	.	.	.	.
[school_id=2] * [studytime=3]	0 ^a	.	.	.	.	.
[school_id=2] * [studytime=4]	0 ^a	.	.	.	.	.

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Parameter Estimates

Dependent Variable: G3

Parameter	Partial Eta Squared	Noncent. Parameter	Observed Power ^b
[school_id=1] * [studytime=4]	.	.	.
[school_id=2] * [studytime=1]	.	.	.
[school_id=2] * [studytime=2]	.	.	.
[school_id=2] * [studytime=3]	.	.	.
[school_id=2] * [studytime=4]	.	.	.

a. This parameter is set to zero because it is redundant.

b. Computed using alpha = .05

Univariate Analysis of Variance

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Notes

Output Created		23-JUN-2026 09:39:09
Comments		
Input	Data	D:\DATA ANALYSIS\IE ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav\unbalanced_anova_spss_ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA G3 BY school_id studytime /METHOD=SSTYPE(1) /INTERCEPT=INCLUDE /PRINT=DESCRIPTIVE ETASQ /CRITERIA=ALPHA(.05) /DESIGN=school_id studytime school_id*studytime.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.04

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Between-Subjects Factors

		Value Label	N
school_id	1	GP	423
	2	MS	226
studytime	1		212
	2		305
	3		97
	4		35

Descriptive Statistics

Dependent Variable: G3

school_id	studytime	Mean	Std. Deviation	N
1	1	11.5294	2.75504	119
	2	12.7330	2.45378	206
	3	13.5634	2.24074	71
	4	13.4074	2.80466	27
	Total	12.5768	2.62564	423
2	1	9.9677	3.55531	93
	2	10.7576	4.16764	99
	3	12.3077	2.96337	26
	4	11.8750	3.68152	8
	Total	10.6504	3.83399	226
Total	1	10.8443	3.21862	212
	2	12.0918	3.24313	305
	3	13.2268	2.50210	97
	4	13.0571	3.03841	35
	Total	11.9060	3.23066	649

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Tests of Between-Subjects Effects

Dependent Variable: G3

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	897.822 ^a	7	128.260	14.017	.000
Intercept	91997.733	1	91997.733	10053.892	.000
school_id	546.629	1	546.629	59.738	.000
studytime	341.212	3	113.737	12.430	.000
school_id * studytime	9.982	3	3.327	.364	.779
Error	5865.444	641	9.150		
Total	98761.000	649			
Corrected Total	6763.267	648			

Tests of Between-Subjects Effects

Dependent Variable: G3

Source	Partial Eta Squared
Corrected Model	.133
Intercept	.940
school_id	.085
studytime	.055
school_id * studytime	.002
Error	
Total	
Corrected Total	

a. R Squared = .133 (Adjusted R Squared = .123)

Graph

Unbalanced ANOVA - Type III Sum of Squares
 Default model: G3 by school and studytime with interaction;

Notes

Output Created		23-JUN-2026 09:39:09
Comments		
Input	Data	D:\DATA ANALYSIS\EANOVA ANOVA Family\Unbalanced ANOVA\SPSS_Output\sav \unbalanced_anova_spss_ ready_data.sav
	Active Dataset	UnbalancedANOVAData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /LINE(MULTIPLE) =MEAN(G3) BY studytime BY school_id.
Resources	Processor Time	00:00:00.83
	Elapsed Time	00:00:00.49

Unbalanced ANOVA - Type III Sum of Squares
Default model: G3 by school and studytime with interaction;

