

Host

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Statistical Power

Statistical Power
Import data

Power inputs

Power inputs
Key descriptives

Descriptives

[StatisticalPowerData] D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\
Statistical Power\SPSS_Output\sav\Statistical-Power-data.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Final grade	649	0	19	11.91	3.231
Second period grade	649	0	19	11.57	2.914
First period grade	649	0	19	11.40	2.745
age	649	15	22	16.74	1.218
absences	649	0	32	3.66	4.641
Valid N (listwise)	649				

Group means

Group means
G3 by sex

Means

Case Processing Summary

	Included		Cases Excluded		Total	
	N	Percent	N	Percent	N	Percent
	Final grade * Sex group	649	100.0%	0	0.0%	649

Report

Final grade

Sex group	N	Mean	Std. Deviation	Std. Error of Mean
F	383	12.25	3.124	.160
M	266	11.41	3.321	.204
Total	649	11.91	3.231	.127

Two group test

Two group test
G3 by sex

T-Test

Group Statistics

	Sex group	N	Mean	Std. Deviation	Std. Error Mean
Final grade	F	383	12.25	3.124	.160
	M	266	11.41	3.321	.204

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means	
		F	Sig.	t	df
Final grade	Equal variances assumed	.004	.950	3.311	647
	Equal variances not assumed			3.275	547.439

Independent Samples Test

		t-test for Equality of Means		
		Sig. (2-tailed)	Mean Difference	Std. Error Difference
Final grade	Equal variances assumed	.001	.847	.256
	Equal variances not assumed	.001	.847	.259

Independent Samples Test

		t-test for Equality of Means	
		95% Confidence Interval of the Difference	
		Lower	Upper
Final grade	Equal variances assumed	.345	1.350
	Equal variances not assumed	.339	1.355

ANOVA power context

ANOVA power context
G3 by studytime

Oneway

Descriptives

Final grade

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
1	212	10.84	3.219	.221	10.41	11.28	0
2	305	12.09	3.243	.186	11.73	12.46	0
3	97	13.23	2.502	.254	12.72	13.73	8
4	35	13.06	3.038	.514	12.01	14.10	6
Total	649	11.91	3.231	.127	11.66	12.16	0

Descriptives

Final grade

	Maximum
1	18
2	19
3	18
4	19
Total	19

ANOVA

Final grade

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	465.078	3	155.026	15.876	.000
Within Groups	6298.189	645	9.765		
Total	6763.267	648			

Correlation power context

Correlation power context
G2 with G3

Correlations

Correlations

		Second period grade	Final grade
Second period grade	Pearson Correlation	1	.919**
	Sig. (2-tailed)		.000
	N	649	649
Final grade	Pearson Correlation	.919**	1
	Sig. (2-tailed)	.000	
	N	649	649

** . Correlation is significant at the 0.01 level (2-tailed).

Power planning notes

Power planning notes
Effect size and sample size

Frequencies

Statistics

		Sex group	School group	Study time
N	Valid	649	649	649
	Missing	0	0	0

Frequency Table

Sex group

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	F	383	59.0	59.0	59.0
	M	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

School group

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	GP	423	65.2	65.2	65.2
	MS	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

Study time

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	212	32.7	32.7	32.7
	2	305	47.0	47.0	79.7
	3	97	14.9	14.9	94.6
	4	35	5.4	5.4	100.0
	Total	649	100.0	100.0	