

Ansari-Bradley Test - Corrected SPSS Output

Ansari-Bradley Test - Corrected SPSS Output
G3 dispersion by family educational support

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Notes

Output Created		16-JUL-2026 01:30:57
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Ansari Bradley Test\SPSS_Output\sav\spss_ready_data_corrected.sav
	Active Dataset	AnsariBradleyDataCorrected
	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 for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=G3 BY famsup /PLOT=BOXPLOT HISTOGRAM /COMPARE=GROUP /STATISTICS=DESCRIPTIVES /CINTERVAL=95 /MISSING=LISTWISE...
Resources	Processor Time	00:00:02.23
	Elapsed Time	00:00:01.35

[AnsariBradleyDataCorrected] D:\DATA ANALYSIS\J Nonparametric Tests\Ansari Bradley Test\SPSS_Output\sav\spss_ready_data_corrected.sav

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Family educational support: no or yes

Case Processing Summary

		Cases			
		Valid		Missing	
Family educational support: no or yes		N	Percent	N	Percent
Final grade used as numeric outcome	no	251	100.0%	0	0.0%
	yes	398	100.0%	0	0.0%

Case Processing Summary

		Cases	
		Total	
Family educational support: no or yes		N	Percent
Final grade used as numeric outcome	no	251	100.0%
	yes	398	100.0%

Descriptives

Family educational support: no or yes			Statistic
Final grade used as numeric outcome	no	Mean	11.67
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	11.95
		Median	12.00
		Variance	12.976
		Std. Deviation	3.602
		Minimum	0
		Maximum	19
		Range	19
		Interquartile Range	4
		Skewness	-1.188
		Kurtosis	2.776
	yes	Mean	12.06
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	12.11

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Descriptives

Family educational support: no or yes			Std. Error	
Final grade used as numeric outcome	no	Mean	.227	
		95% Confidence Interval for Mean	Lower Bound	
			Upper Bound	
		5% Trimmed Mean		
		Median		
		Variance		
		Std. Deviation		
		Minimum		
		Maximum		
		Range		
		Interquartile Range		
		Skewness	.154	
		Kurtosis	.306	
		yes	Mean	.149
	95% Confidence Interval for Mean		Lower Bound	
			Upper Bound	
	5% Trimmed Mean			

Descriptives

Family educational support: no or yes		Statistic
	Median	12.00
	Variance	8.805
	Std. Deviation	2.967
	Minimum	0
	Maximum	19
	Range	19
	Interquartile Range	4
	Skewness	-.519
	Kurtosis	1.926

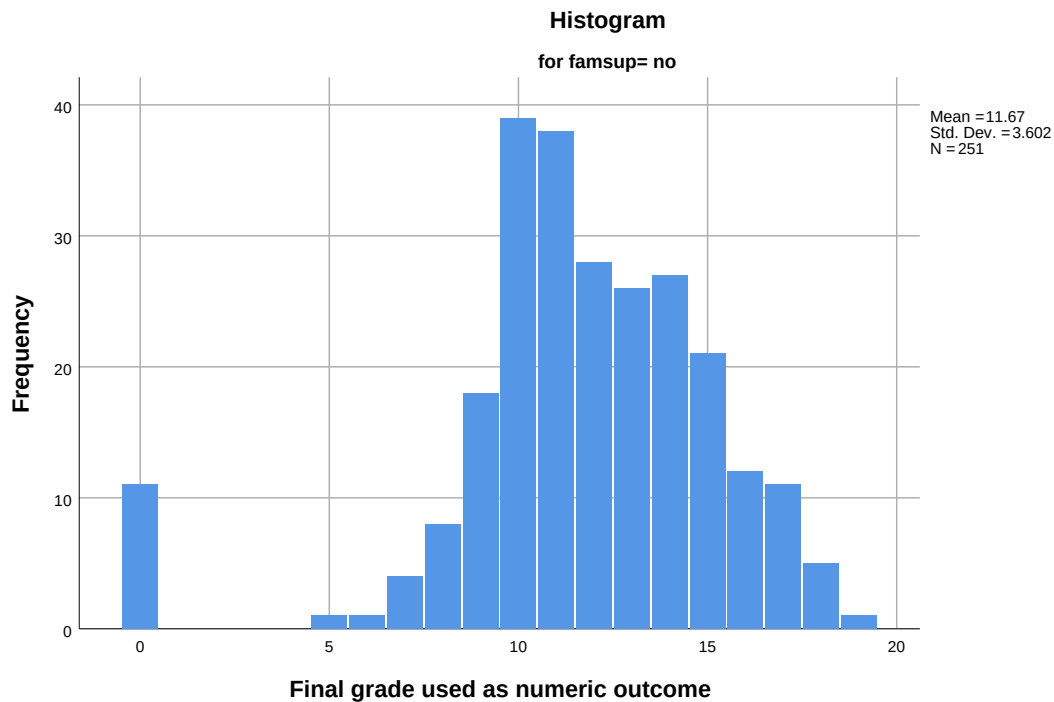
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Descriptives

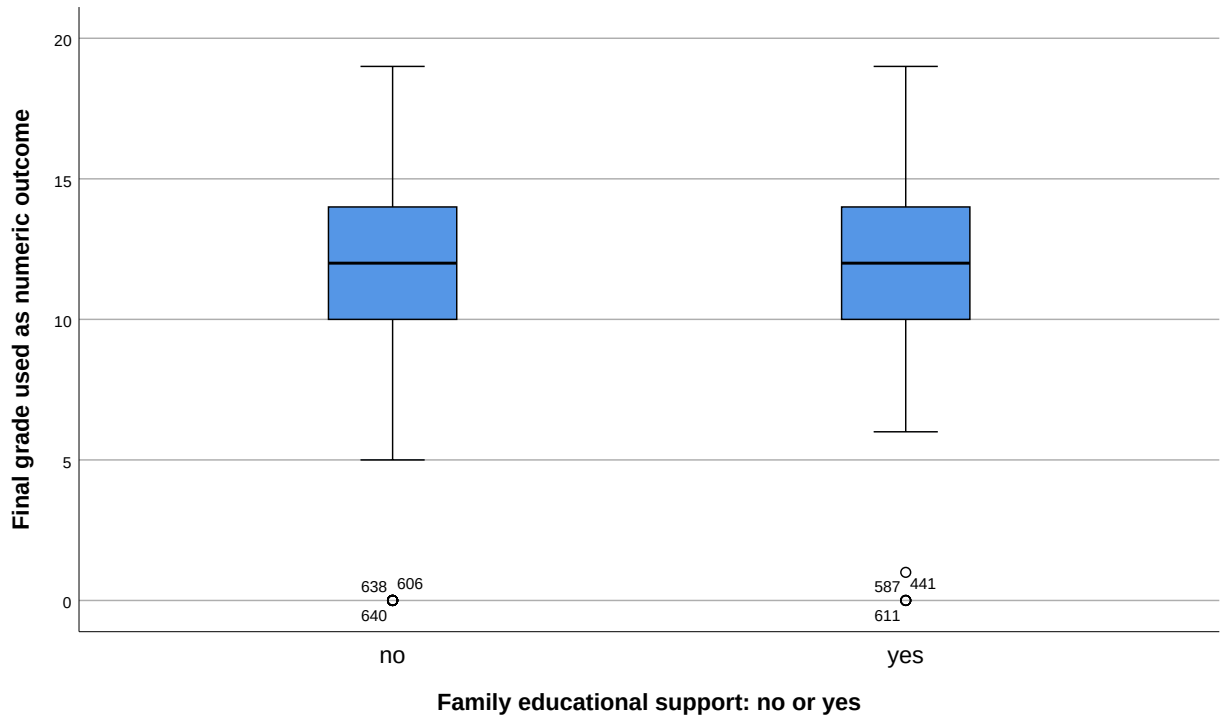
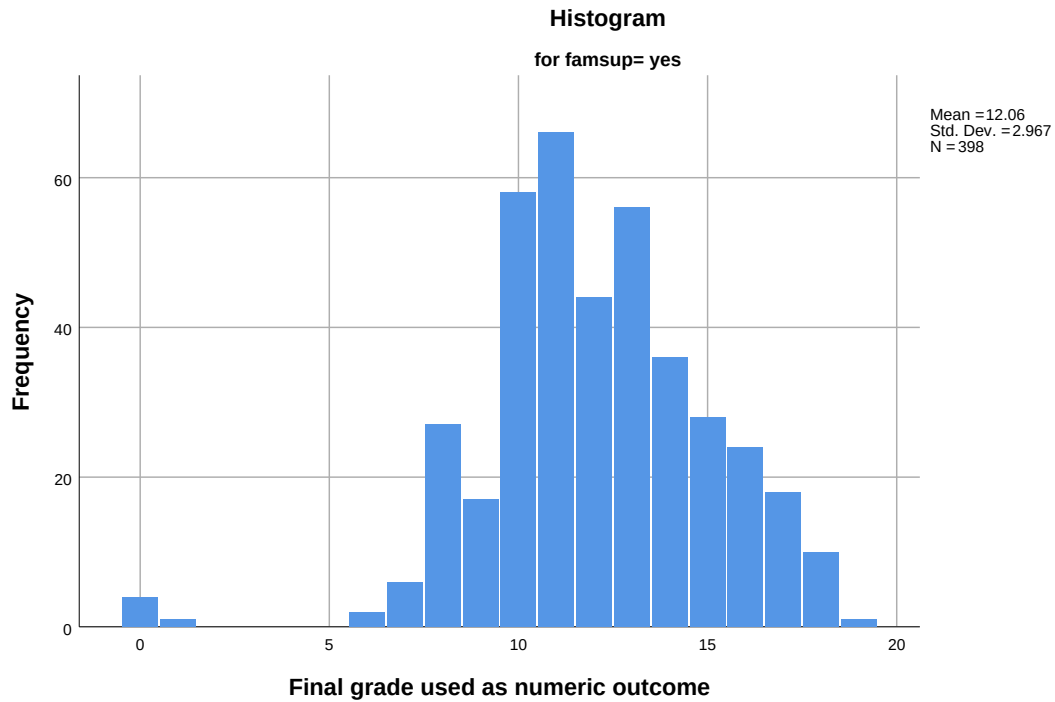
Family educational support: no or yes		Std. Error
	Median	
	Variance	
	Std. Deviation	
	Minimum	
	Maximum	
	Range	
	Interquartile Range	
	Skewness	.122
	Kurtosis	.244

Final grade used as numeric outcome

Histograms



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Ansari-Bradley Test Results

ANSARI-BRADLEY TEST RESULTS

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Outcome variable: G3
Grouping variable: famsup
Sample X: no
Sample Y: yes

GROUP DESCRIPTIVES

N, no: 251
N, yes: 398
Mean, no: 11.665339
Mean, yes: 12.057789
Median, no: 12.000000
Median, yes: 12.000000
SD, no: 3.602160
SD, yes: 2.967358
IQR, no: 4.000000
IQR, yes: 4.000000

TEST RESULTS

A statistic: 40094.500000
Expected A: 40850.346687
Tie-adjusted variance: 1368865.001712
Standard error: 1169.985043
Z statistic: 0.646031
Asymptotic p-value: 0.5182592353
Permutation p-value: 0.5108489151
Alpha: 0.050

DECISION

Fail to reject the null hypothesis of equal scale.

INTERPRETATION

No statistically significant difference in G3 dispersion was detected.

TIE NOTE

G3 contains tied integer values.
The asymptotic calculation uses the tie-adjusted variance.

