

Savage Scores Two-Sample Test

Savage Scores Two-Sample Test
Test-specific data preparation and execution

>Warning # 4492 on line 13974 in column 42. Text: internet_bin
>The (ADD) VALUE LABELS command included a symbol other than a value where a
>value (either numeric or string) was expected. For compatibility with
>previous systems, a parenthesized value would have been acceptable. All valu
e
>labels up to the next slash will be ignored.

Savage scores two-sample test

>Warning # 2004 on line 13978. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

Savage scores two-sample test
Upper-tail-sensitive exponential scores for absences by scho

RANK

Notes

Output Created		16-JUL-2026 16:50:49
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Savage Scores Test\dataset.csv
	Active Dataset	SavageScoresTestData
	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	All non-missing data are used.
Syntax		RANK VARIABLES=absences (A) /SAVAGE INTO absence_savage /TIES=MEAN.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.03
Variables Created or Modified	absence_savage	Savage Score of absences

[SavageScoresTestData]

Created Variables^a

Source Variable	Function	New Variable	Label
absences ^b	Savage Score	absence_savage	Savage Score of absences

a. Mean rank of tied values is used for ties.

b. Ranks are in ascending order.

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Oneway

Notes

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Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Savage Scores Test\dataset.csv
	Active Dataset	SavageScoresTestData
	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 analysis are based on cases with no missing data for any variable in the analysis.
Syntax		ONEWAY absence_savage BY school_n /STATISTICS DESCRIPTIVES HOMOGENEITY.
Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.07

Descriptives

Savage Score of absences

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
GP	423	.118071	1.1051226	.0537329	.012454	.223689	-.7819
MS	226	-.220992	.6698884	.0445603	-.308801	-.133183	-.7819
Total	649	.000000	.9885846	.0388053	-.076199	.076199	-.7819

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Descriptives

Savage Score of absences

	Maximum
GP	6.0534
MS	1.8427
Total	6.0534

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Savage Score of absences	Based on Mean	27.411	1	647	.000
	Based on Median	14.322	1	647	.000
	Based on Median and with adjusted df	14.322	1	516.324	.000
	Based on trimmed mean	21.534	1	647	.000

ANOVA

Savage Score of absences

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16.934	1	16.934	17.776	.000
Within Groups	616.356	647	.953		
Total	633.290	648			

Means

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	Active Dataset	SavageScoresTestData
	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=absence_savage BY school_n /CELLS=COUNT MEAN SUM STDDEV.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.04

Case Processing Summary

	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Savage Score of absences * school_n	649	100.0%	0	0.0%	649	100.0%

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Report

Savage Score of absences

school_n	N	Mean	Sum	Std. Deviation
GP	423	.118071	49.9442	1.1051226
MS	226	-.220992	-49.9442	.6698884
Total	649	.000000	.0000	.9885846

Graph

Notes

Output Created		16-JUL-2026 16:50:50
Comments		
Input	Data	D:\DATA ANALYSIS\J Nonparametric Tests\Savage Scores Test\dataset.csv
	Active Dataset	SavageScoresTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(GROUPED) =MEAN(absence_savage) BY school_n.
Resources	Processor Time	00:00:00.58
	Elapsed Time	00:00:00.89

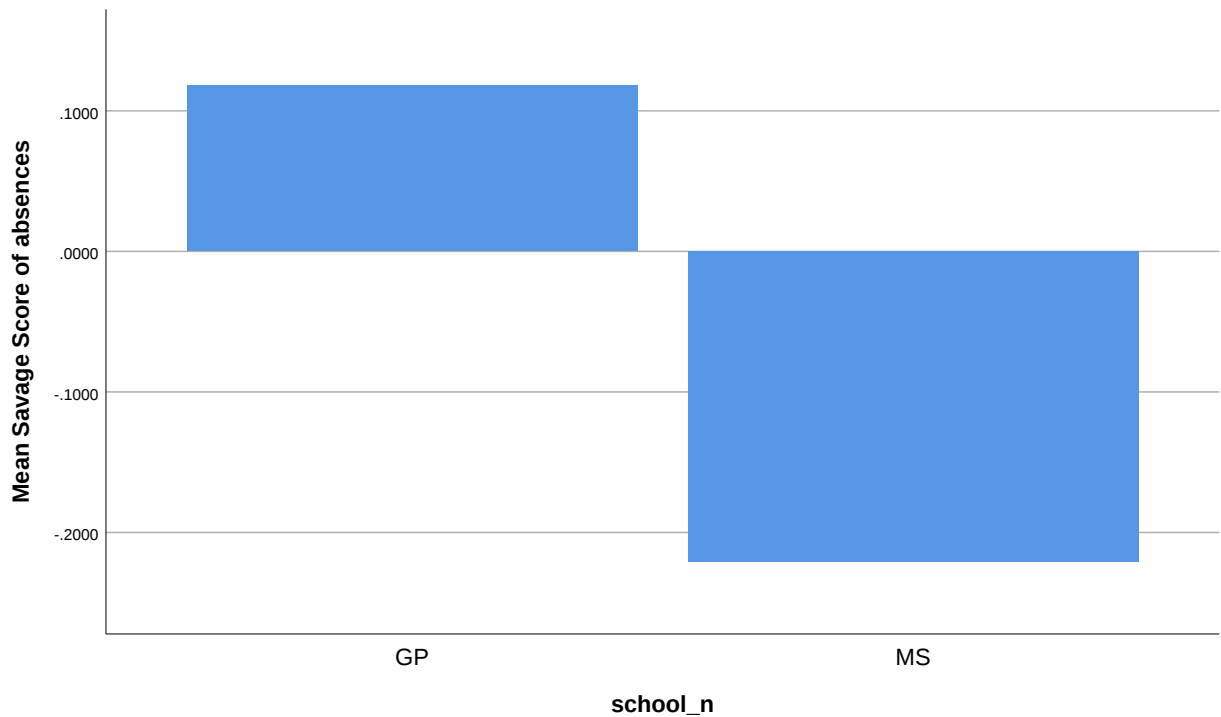
>Warning # 17848

>The requested bar chart type cannot be drawn with the provided data. Instead

,

>Graphics will attempt to draw a simple bar chart.

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SAVAGE SCORES TWO-SAMPLE TEST
Formula: a_i=sum_{j=N-i+1}^N 1/j; Z=[sum_GP a_i-E]/sqrt(Var)
Variables: absences, school
expected_score_sum = 423.000000000000114
gp_score_sum = 472.94420517411913
p_value = 3.145841583199524e-05
variance = 143.9566565352062
z_statistic = 4.162643615119964
Cross-check status: pass
=====
```