```
OUTPUT ACTIVATE ParametricNonparametricOutput.
  45  0 M>  OUTPUT ACTIVATE ParametricNonparametricOutput.
TITLE 'Parametric vs Nonparametric Tests SPSS Output'.
  46  0 M>  TITLE 'Parametric vs Nonparametric Tests SPSS Output'.
```

```
SUBTITLE 't-test vs Mann-Whitney, ANOVA vs Kruskal-Wallis, Pearson vs Spearman
'.
  47  0 M>  SUBTITLE 't-test vs Mann-Whitney, ANOVA vs Kruskal-Wallis, Pearson
 vs Spearman'.

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

```
  48  0 M>
GET DATA
  49  0 M>  GET DATA
  /TYPE=TXT
  50  0 M>    /TYPE=TXT
  /FILE='D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs
Nonparametric Tests\dataset.csv'
  51  0 M>    /FILE='D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Pa
rametric vs Nonparametric Tests\dataset.csv'
  /ENCODING='UTF8'
  52  0 M>    /ENCODING='UTF8'
  /DELCASE=LINE
  53  0 M>    /DELCASE=LINE
  /DELIMITERS=','
  54  0 M>    /DELIMITERS=','
  /QUALIFIER='"'
  55  0 M>    /QUALIFIER='"'
  /ARRANGEMENT=DELIMITED
  56  0 M>    /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  57  0 M>    /FIRSTCASE=2
  /VARIABLES=
  58  0 M>    /VARIABLES=
    school A8
  59  0 M>      school A8
    sex A8
  60  0 M>      sex A8
    age F8.0
  61  0 M>      age F8.0
    address A8
  62  0 M>      address A8
    famsize A8
  63  0 M>      famsize A8
    Pstatus A8
  64  0 M>      Pstatus A8
    Medu F8.0
  65  0 M>      Medu F8.0
    Fedu F8.0
  66  0 M>      Fedu F8.0
```

```
  Mjob A16
67  0 M>      Mjob A16
  Fjob A16
68  0 M>      Fjob A16
  reason A16
69  0 M>      reason A16
  guardian A16
70  0 M>      guardian A16
  traveltime F8.0
71  0 M>      traveltime F8.0
  studytime F8.0
72  0 M>      studytime F8.0
  failures F8.0
73  0 M>      failures F8.0
  schoolsup A8
74  0 M>      schoolsup A8
  famsup A8
75  0 M>      famsup A8
  paid A8
76  0 M>      paid A8
  activities A8
77  0 M>      activities A8
  nursery A8
78  0 M>      nursery A8
  higher A8
79  0 M>      higher A8
  internet A8
80  0 M>      internet A8
  romantic A8
81  0 M>      romantic A8
  famrel F8.0
82  0 M>      famrel F8.0
  freetime F8.0
83  0 M>      freetime F8.0
  goout F8.0
84  0 M>      goout F8.0
  Dalc F8.0
85  0 M>      Dalc F8.0
  Walc F8.0
```

```
  86  0 M>      Walc F8.0
    health F8.0
  87  0 M>      health F8.0
    absences F8.0
  88  0 M>      absences F8.0
    G1 F8.0
  89  0 M>      G1 F8.0
    G2 F8.0
  90  0 M>      G2 F8.0
    G3 F8.0.
  91  0 M>      G3 F8.0.
DATASET NAME ParametricNonparametricData.
  92  0 M>  DATASET NAME ParametricNonparametricData.
EXECUTE.
  93  0 M>  EXECUTE.

  94  0 M>
VARIABLE LABELS
  95  0 M>  VARIABLE LABELS
  sex 'Sex group'
  96  0 M>    sex 'Sex group'
  studytime 'Weekly study time category'
  97  0 M>    studytime 'Weekly study time category'
  G1 'First period grade'
  98  0 M>    G1 'First period grade'
  G2 'Second period grade'
  99  0 M>    G2 'Second period grade'
  G3 'Final grade'.
 100  0 M>    G3 'Final grade'.

 101  0 M>
COMPUTE sexgrp = $SYSMIS.
 102  0 M>  COMPUTE sexgrp = $SYSMIS.
IF (sex = 'F') sexgrp = 1.
 103  0 M>  IF (sex = 'F') sexgrp = 1.
IF (sex = 'M') sexgrp = 2.
 104  0 M>  IF (sex = 'M') sexgrp = 2.
VARIABLE LABELS sexgrp 'Sex group code'.
 105  0 M>  VARIABLE LABELS sexgrp 'Sex group code'.
```

```
VALUE LABELS sexgrp 1 'Female' 2 'Male'.
 106  0 M>  VALUE LABELS sexgrp 1 'Female' 2 'Male'.
FORMATS sexgrp (F1.0).
 107  0 M>  FORMATS sexgrp (F1.0).
EXECUTE.
 108  0 M>  EXECUTE.

 109  0 M>
SAVE OUTFILE='D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametri
c vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav'
.
 110  0 M>  SAVE OUTFILE='D:\DATA ANALYSIS\A Basic Descriptive Statistics Guid
es\Parametric vs Nonparametric Tests\SPSS_Output\sav\P
               arametric-vs-Nonparametric-data.sav'.

 111  0 M>
TITLE 'Descriptive statistics'.
 112  0 M>  TITLE 'Descriptive statistics'.
```

```
SUBTITLE 'Core variables used in parametric and nonparametric examples'.
 113  0 M>  SUBTITLE 'Core variables used in parametric and nonparametric exam
ples'.
```

Descriptive statistics
Core variables used in parametric and nonparametric examples

```
DESCRIPTIVES VARIABLES=G3 G2 studytime
 114  0 M>  DESCRIPTIVES VARIABLES=G3 G2 studytime
  /STATISTICS=MEAN STDDEV MIN MAX.
 115  0 M>    /STATISTICS=MEAN STDDEV MIN MAX.
```

Descriptives

Notes

Output Created		18-JUN-2026 21:48:19
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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		DESCRIPTIVES VARIABLES=G3 G2 studytime /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.12

```
[ParametricNonparametricData] D:\DATA ANALYSIS\A Basic Descriptive Statistics
Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonpara
metric-data.sav
```

Descriptive statistics
Core variables used in parametric and nonparametric examples

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
G3	649	0	19	11.91	3.231
G2	649	0	19	11.57	2.914
studytime	649	1	4	1.93	.830
Valid N (listwise)	649				

```
FREQUENCIES VARIABLES=sexgrp studytime
 116  0 M>  FREQUENCIES VARIABLES=sexgrp studytime
  /ORDER=ANALYSIS.
 117  0 M>    /ORDER=ANALYSIS.
```

Frequencies

Notes

Output Created		18-JUN-2026 21:48:19
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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.

Descriptive statistics
Core variables used in parametric and nonparametric examples

Notes

Syntax		FREQUENCIES VARIABLES=sexgrp studytime /ORDER=ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.05

Statistics

		sexgrp	studytime
N	Valid	649	649
	Missing	0	0

Frequency Table

sexgrp

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	383	59.0	59.0	59.0
	2	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

studytime

		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	

```
 118  0 M>
TITLE 'Distribution and boxplot check'.
 119  0 M>  TITLE 'Distribution and boxplot check'.
```

```
SUBTITLE 'G3 by sex group'.
 120  0 M>  SUBTITLE 'G3 by sex group'.
```

Distribution and boxplot check
G3 by sex group

```
EXAMINE VARIABLES=G3 BY sexgrp
 121  0 M>  EXAMINE VARIABLES=G3 BY sexgrp
  /PLOT BOXPLOT
 122  0 M>    /PLOT BOXPLOT
  /COMPARE GROUPS
 123  0 M>    /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
 124  0 M>    /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
 125  0 M>    /CINTERVAL 95
  /MISSING LISTWISE
 126  0 M>    /MISSING LISTWISE
  /NOTOTAL.
 127  0 M>    /NOTOTAL.
```

Explore

Notes

Output Created		18-JUN-2026 21:48:19
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649

Distribution and boxplot check
G3 by sex group

Notes

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 sexgrp /PLOT BOXPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE...
Resources	Processor Time	00:00:05.92
	Elapsed Time	00:00:02.89

Sex group code

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	sexgrp	N	Percent	N	Percent	N	Percent
G3	1	383	100.0%	0	0.0%	383	100.0%
	2	266	100.0%	0	0.0%	266	100.0%

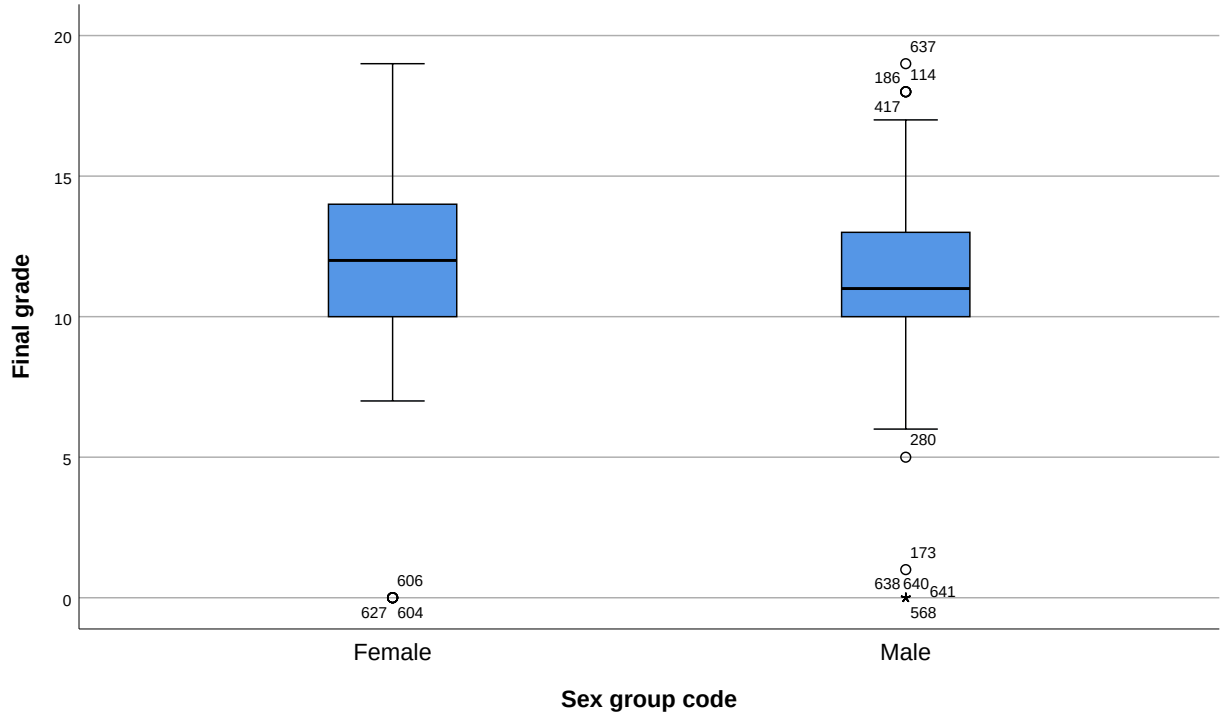
Distribution and boxplot check
G3 by sex group

Descriptives

	sexgrp			Statistic	Std. Error
G3	1	Mean		12.25	.160
		95% Confidence Interval for Mean	Lower Bound	11.94	
			Upper Bound	12.57	
		5% Trimmed Mean		12.37	
		Median		12.00	
		Variance		9.760	
		Std. Deviation		3.124	
		Minimum		0	
		Maximum		19	
		Range		19	
		Interquartile Range		4	
		Skewness		-.857	.125
		Kurtosis		2.683	.249
	2	Mean		11.41	.204
		95% Confidence Interval for Mean	Lower Bound	11.01	
			Upper Bound	11.81	
		5% Trimmed Mean		11.60	
		Median		11.00	
		Variance		11.027	
		Std. Deviation		3.321	
		Minimum		0	
		Maximum		19	
		Range		19	
		Interquartile Range		3	
		Skewness		-.980	.149
		Kurtosis		2.803	.298

Final grade

Distribution and boxplot check
G3 by sex group




```
 128  0 M>
TITLE 'Parametric test: Welch independent-samples t test'.
 129  0 M>  TITLE 'Parametric test: Welch independent-samples t test'.
```

```
SUBTITLE 'G3 by sex group'.
 130  0 M>  SUBTITLE 'G3 by sex group'.
```

Parametric test: Welch independent-samples t test
G3 by sex group

```
T-TEST GROUPS=sexgrp(1 2)
 131  0 M>  T-TEST GROUPS=sexgrp(1 2)
  /MISSING=ANALYSIS
 132  0 M>    /MISSING=ANALYSIS
  /VARIABLES=G3
 133  0 M>    /VARIABLES=G3
  /CRITERIA=CI(.95).
 134  0 M>    /CRITERIA=CI(.95).
```

T-Test

Notes

Output Created		18-JUN-2026 21:48:22
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST GROUPS=sexgrp(1 2) /MISSING=ANALYSIS /VARIABLES=G3 /CRITERIA=CI(.95).

Parametric test: Welch independent-samples t test
G3 by sex group

Notes

Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Group Statistics

	sexgrp	N	Mean	Std. Deviation	Std. Error Mean
G3	1	383	12.25	3.124	.160
	2	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
G3	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	95% Confidence ... Lower
G3	Equal variances assumed	.001	.847	.256	.345
	Equal variances not assumed	.001	.847	.259	.339

Parametric test: Welch independent-samples t test
G3 by sex group

Independent Samples Test

		t-test for Equality of Means: 95% Confidence Interval of the ... Upper
G3	Equal variances assumed	1.350
	Equal variances not assumed	1.355

```
 135  0 M>
TITLE 'Nonparametric test: Mann-Whitney U test'.
 136  0 M>  TITLE 'Nonparametric test: Mann-Whitney U test'.
```

```
SUBTITLE 'G3 by sex group'.
 137  0 M>  SUBTITLE 'G3 by sex group'.
```

Nonparametric test: Mann-Whitney U test
G3 by sex group

```
NPAR TESTS
 138  0 M>  NPAR TESTS
  /M-W=G3 BY sexgrp(1 2)
 139  0 M>    /M-W=G3 BY sexgrp(1 2)
  /MISSING ANALYSIS.
 140  0 M>    /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		18-JUN-2026 21:48:22
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 test are based on all cases with valid data for the variable (s) used in that test.
Syntax		NPAR TESTS /M-W=G3 BY sexgrp(1 2) /MISSING ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01
	Number of Cases Allowed[a]	449389

Nonparametric test: Mann-Whitney U test
G3 by sex group

a. Based on availability of workspace memory.

Mann-Whitney Test

Ranks

	sexgrp	N	Mean Rank	Sum of Ranks
G3	1	383	345.83	132452.50
	2	266	295.01	78472.50
	Total	649		

Test Statistics[a]

	G3
Mann-Whitney U	42961.500
Wilcoxon W	78472.500
Z	-3.418
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable: sexgrp

```
 141  0 M>
TITLE 'Parametric test: One-way ANOVA'.
 142  0 M>  TITLE 'Parametric test: One-way ANOVA'.
```

```
SUBTITLE 'G3 by studytime'.
 143  0 M>  SUBTITLE 'G3 by studytime'.
```

Parametric test: One-way ANOVA
G3 by studytime

```
ONEWAY G3 BY studytime
 144  0 M>  ONEWAY G3 BY studytime
  /STATISTICS DESCRIPTIVES HOMOGENEITY
 145  0 M>    /STATISTICS DESCRIPTIVES HOMOGENEITY
  /MISSING ANALYSIS.
 146  0 M>    /MISSING ANALYSIS.
```

Oneway

Notes

Output Created		18-JUN-2026 21:48:23
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 G3 BY studytime /STATISTICS DESCRIPTIVES HOMOGENEITY /MISSING ANALYSIS.

Parametric test: One-way ANOVA
G3 by studytime

Notes

Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02

Descriptives

G3

	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

G3

	Maximum
1	18
2	19
3	18
4	19
Total	19

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
G3	Based on Mean	.985	3	645	.400
	Based on Median	1.026	3	645	.380
	Based on Median and with adjusted df	1.026	3	609.885	.380
	Based on trimmed mean	1.081	3	645	.356

Parametric test: One-way ANOVA
G3 by studytime

ANOVA

G3

	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			

```
 147  0 M>
TITLE 'Nonparametric test: Kruskal-Wallis test'.
 148  0 M>  TITLE 'Nonparametric test: Kruskal-Wallis test'.
```

```
SUBTITLE 'G3 by studytime'.
 149  0 M>  SUBTITLE 'G3 by studytime'.
```

Nonparametric test: Kruskal-Wallis test
G3 by studytime

```
NPAR TESTS
 150  0 M>  NPAR TESTS
  /K-W=G3 BY studytime(1 4)
 151  0 M>    /K-W=G3 BY studytime(1 4)
  /MISSING ANALYSIS.
 152  0 M>    /MISSING ANALYSIS.
```

NPar Tests

Notes

Output Created		18-JUN-2026 21:48:23
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 test are based on all cases with valid data for the variable (s) used in that test.
Syntax		NPAR TESTS /K-W=G3 BY studytime(1 4) /MISSING ANALYSIS.

Nonparametric test: Kruskal-Wallis test
G3 by studytime

Notes

Resources	Processor Time	00:00:00.05
	Elapsed Time	00:00:00.07
	Number of Cases Allowed[a]	449389

a. Based on availability of workspace memory.

Kruskal-Wallis Test

Ranks

	studytime	N	Mean Rank
G3	1	212	258.91
	2	305	338.26
	3	97	406.76
	4	35	383.13
	Total	649	

Test Statistics[a,b]

	G3
Kruskal-Wallis H	50.316
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: studytime

```
 153  0 M>
TITLE 'Parametric correlation: Pearson'.
 154  0 M>  TITLE 'Parametric correlation: Pearson'.
```

```
SUBTITLE 'G2 and G3'.
 155  0 M>  SUBTITLE 'G2 and G3'.
```

Parametric correlation: Pearson
G2 and G3

```
CORRELATIONS
 156  0 M>  CORRELATIONS
  /VARIABLES=G2 G3
 157  0 M>    /VARIABLES=G2 G3
  /PRINT=TWOTAIL NOSIG
 158  0 M>    /PRINT=TWOTAIL NOSIG
  /MISSING=PAIRWISE.
 159  0 M>    /MISSING=PAIRWISE.
```

Correlations

Notes

Output Created		18-JUN-2026 21:48:23
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 pair of variables are based on all the cases with valid data for that pair.
Syntax		CORRELATIONS /VARIABLES=G2 G3 /PRINT=TWOTAIL NOSIG /MISSING=PAIRWISE.

Parametric correlation: Pearson
G2 and G3

Notes

Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.07

Correlations

		G2	G3
G2	Pearson Correlation	1	.919**
	Sig. (2-tailed)		.000
	N	649	649
G3	Pearson Correlation	.919**	1
	Sig. (2-tailed)	.000	
	N	649	649

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

```
 160  0 M>
TITLE 'Nonparametric correlation: Spearman'.
 161  0 M>  TITLE 'Nonparametric correlation: Spearman'.
```

```
SUBTITLE 'G2 and G3'.
 162  0 M>  SUBTITLE 'G2 and G3'.
```

Nonparametric correlation: Spearman
G2 and G3

```
NONPAR CORR
 163  0 M>  NONPAR CORR
  /VARIABLES=G2 G3
 164  0 M>    /VARIABLES=G2 G3
  /PRINT=SPEARMAN TWOTAIL
 165  0 M>    /PRINT=SPEARMAN TWOTAIL
  /MISSING=PAIRWISE.
 166  0 M>    /MISSING=PAIRWISE.
```

Nonparametric Correlations

Notes

Output Created		18-JUN-2026 21:48:23
Comments		
Input	Data	D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Parametric vs Nonparametric Tests\SPSS_Output\sav\Parametric-vs-Nonparametric-data.sav
	Active Dataset	ParametricNonparametric Data
	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 pair of variables are based on all the cases with valid data for that pair.
Syntax		NONPAR CORR /VARIABLES=G2 G3 /PRINT=SPEARMAN TWOTAIL /MISSING=PAIRWISE.

Nonparametric correlation: Spearman
G2 and G3

Notes

Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.04
	Number of Cases Allowed	629145 cases[a]

a. Based on availability of workspace memory

Correlations

			G2	G3
Spearman's rho	G2	Correlation Coefficient	1.000	.944
		Sig. (2-tailed)	.	.000
		N	649	649
	G3	Correlation Coefficient	.944	1.000
		Sig. (2-tailed)	.000	.
		N	649	649

```
 167  0 M>
OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Pa
rametric vs Nonparametric Tests\SPSS_Output\spv\Parametric-vs-Nonparametric-SP
SS-Output.spv'.
 168  0 M>  OUTPUT SAVE OUTFILE='D:\DATA ANALYSIS\A Basic Descriptive Statisti
cs Guides\Parametric vs Nonparametric Tests\SPSS_Outpu
              t\spv\Parametric-vs-Nonparametric-SPSS-Output.spv'.

 169  0 M>
OUTPUT EXPORT
 170  0 M>  OUTPUT EXPORT
  /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRINTSETTING
 171  0 M>    /CONTENTS EXPORT=ALL LAYERS=PRINTSETTING MODELVIEWS=PRINTSETTING
```