

Data written to D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Margin of Error\SPSS_Output\clean_data\spss_ready_data.csv.

33 variables and 649 cases written.

Variable: school	Type: String	Width: 2	
Variable: sex	Type: String	Width: 1	
Variable: age	Type: Number	Width: 2	Dec: 0
Variable: address	Type: String	Width: 1	
Variable: famsize	Type: String	Width: 3	
Variable: Pstatus	Type: String	Width: 1	
Variable: Medu	Type: Number	Width: 1	Dec: 0
Variable: Fedu	Type: Number	Width: 1	Dec: 0
Variable: Mjob	Type: String	Width: 10	
Variable: Fjob	Type: String	Width: 10	
Variable: reason	Type: String	Width: 10	
Variable: guardian	Type: String	Width: 10	
Variable: traveltime	Type: Number	Width: 1	Dec: 0
Variable: studytime	Type: Number	Width: 1	Dec: 0
Variable: failures	Type: Number	Width: 1	Dec: 0
Variable: schoolsup	Type: String	Width: 3	
Variable: famsup	Type: String	Width: 3	
Variable: paid	Type: String	Width: 3	
Variable: activities	Type: String	Width: 3	
Variable: nursery	Type: String	Width: 3	
Variable: higher	Type: String	Width: 3	
Variable: internet	Type: String	Width: 3	
Variable: romantic	Type: String	Width: 3	
Variable: famrel	Type: Number	Width: 1	Dec: 0
Variable: freetime	Type: Number	Width: 1	Dec: 0
Variable: goout	Type: Number	Width: 1	Dec: 0
Variable: Dalc	Type: Number	Width: 1	Dec: 0
Variable: Walc	Type: Number	Width: 1	Dec: 0
Variable: health	Type: Number	Width: 1	Dec: 0
Variable: absences	Type: Number	Width: 3	Dec: 0
Variable: G1	Type: Number	Width: 2	Dec: 0
Variable: G2	Type: Number	Width: 2	Dec: 0
Variable: G3	Type: Number	Width: 2	Dec: 0

Margin of Error Analysis for G3 Final Grade

>Warning # 2004. Command name: SUBTITLE

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

Margin of Error Analysis for G3 Final Grade
 SPSS output includes descriptive statistics, standard error,

Descriptives

[StudentData]

Descriptive Statistics

	N Statistic	Minimum Statistic	Maximum Statistic	Mean		Std. Deviation Statistic
				Statistic	Std. Error	
Final grade	649	0	19	11.91	.127	3.231
Valid N (listwise)	649					

Explore

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Final grade	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error	
Final grade	Mean	11.91	.127	
	95% Confidence Interval for Mean	Lower Bound	11.66	
		Upper Bound	12.16	
	5% Trimmed Mean	12.06		
	Median	12.00		
	Variance	10.437		
	Std. Deviation	3.231		
	Minimum	0		
	Maximum	19		
	Range	19		
	Interquartile Range	4		
	Skewness	-.913	.096	
	Kurtosis	2.712	.192	

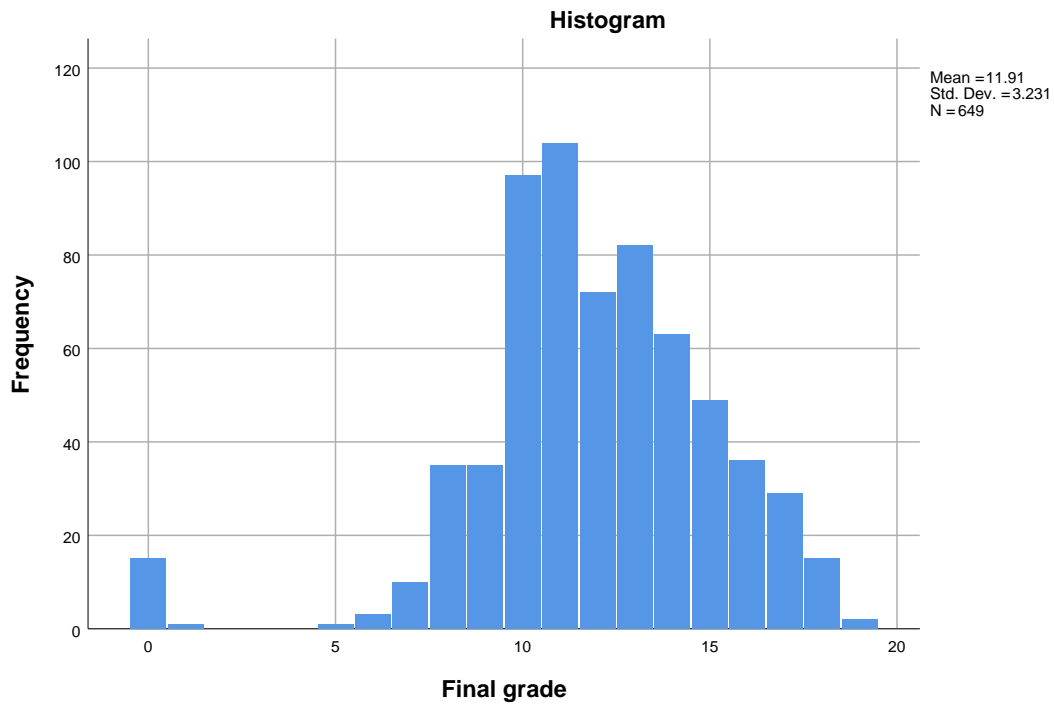
Margin of Error Analysis for G3 Final Grade
SPSS output includes descriptive statistics, standard error,

Tests of Normality

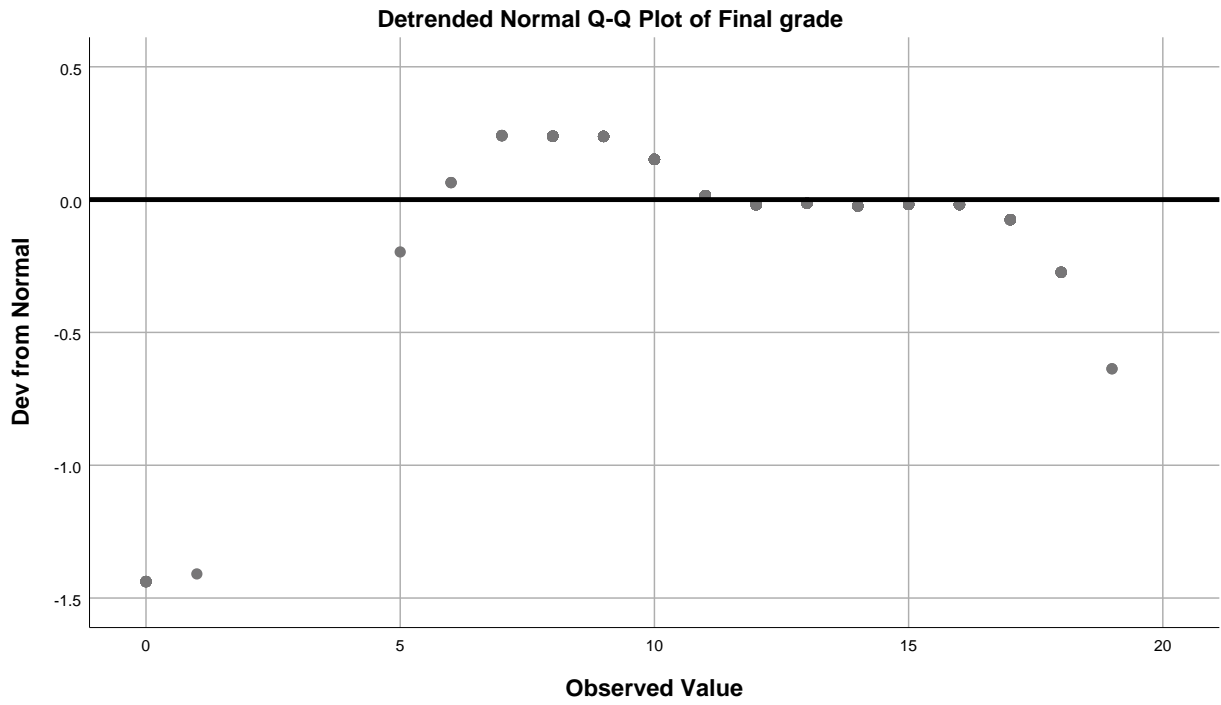
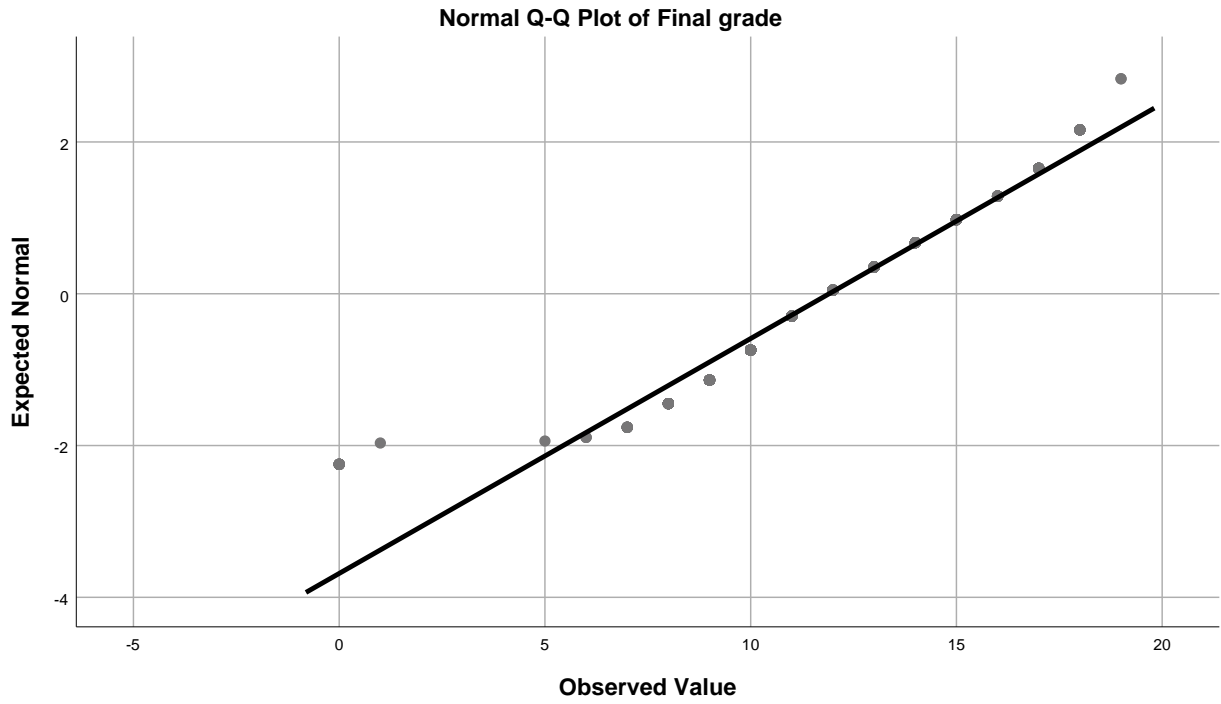
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Final grade	.124	649	.000	.926	649	.000

a. Lilliefors Significance Correction

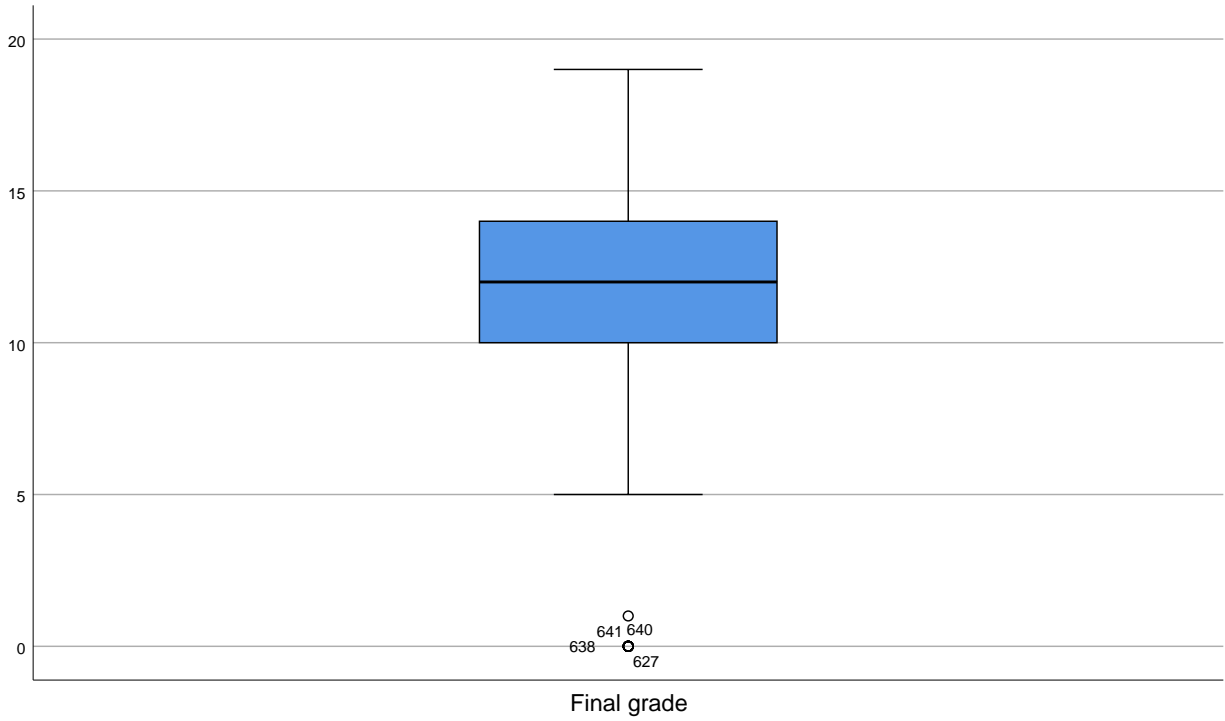
Final grade



Margin of Error Analysis for G3 Final Grade
SPSS output includes descriptive statistics, standard error,



Margin of Error Analysis for G3 Final Grade
SPSS output includes descriptive statistics, standard error,



List

Margin of Error Analysis for G3 Final Grade
 SPSS output includes descriptive statistics, standard error,

```

n_G3      mean_G3      sd_G3      se_G3  z_critical_95  t_critical_95  margin_e
ror_z_95  margin_error_t_95  lower_ci_95  upper_ci_95

      649      11.9060      3.2307      .1268      1.9600      1.9636
.2486              .2490              11.6570      12.1550
  
```

Number of cases read: 1 Number of cases listed: 1

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Final grade * Student school	649	100.0%	0	0.0%	649	100.0%

Report

Final grade

Student school	N	Mean	Std. Deviation	Std. Error of Mean
GP	423	12.58	2.626	.128
MS	226	10.65	3.834	.255
Total	649	11.91	3.231	.127

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Final grade * Student sex	649	100.0%	0	0.0%	649	100.0%

Margin of Error Analysis for G3 Final Grade
SPSS output includes descriptive statistics, standard error,

Report

Final grade

Student sex	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

Graph

