

Host

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Bartlett's Test

Bartlett's Test
Import data

Bartlett's context

Bartlett's context
Group descriptives

Means

[Bartlett'sData] D:\DATA ANALYSIS\B Normality and Assumption Tests\Bartlett's Test\SPSS_Output\sav\Bartlett's-Test-data.sav

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
G3 * sex	649	100.0%	0	0.0%	649	100.0%

Report

G3

sex	N	Mean	Std. Deviation	Variance
F	383	12.25	3.124	9.760
M	266	11.41	3.321	11.027
Total	649	11.91	3.231	10.437

Normality context

Normality context
Bartlett assumption

Explore

Sex group

Case Processing Summary

	sex	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
G3	F	383	100.0%	0	0.0%	383	100.0%
	M	266	100.0%	0	0.0%	266	100.0%

Descriptives

sex		Statistic	Std. Error		
G3	F	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		
	M	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				

Normality context
Bartlett assumption

Descriptives

sex		Statistic	Std. Error
Range		19	
Interquartile Range		3	
Skewness		-.980	.149
Kurtosis		2.803	.298

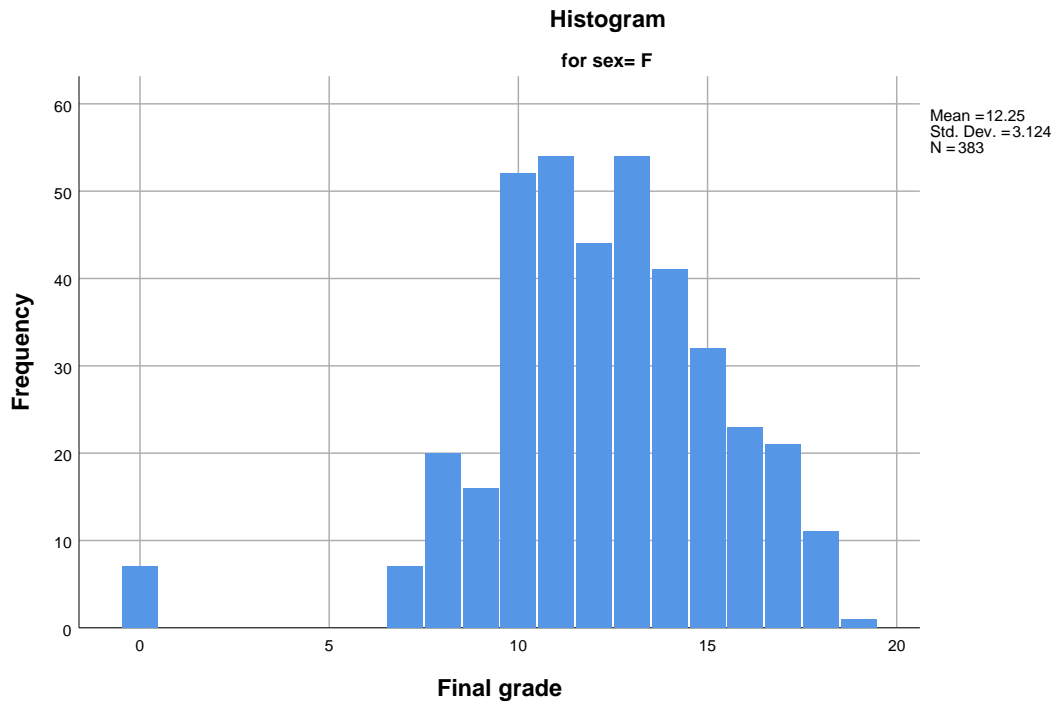
Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
sex		Statistic	df	Sig.	Statistic	df	Sig.
G3	F	.105	383	.000	.934	383	.000
	M	.148	266	.000	.913	266	.000

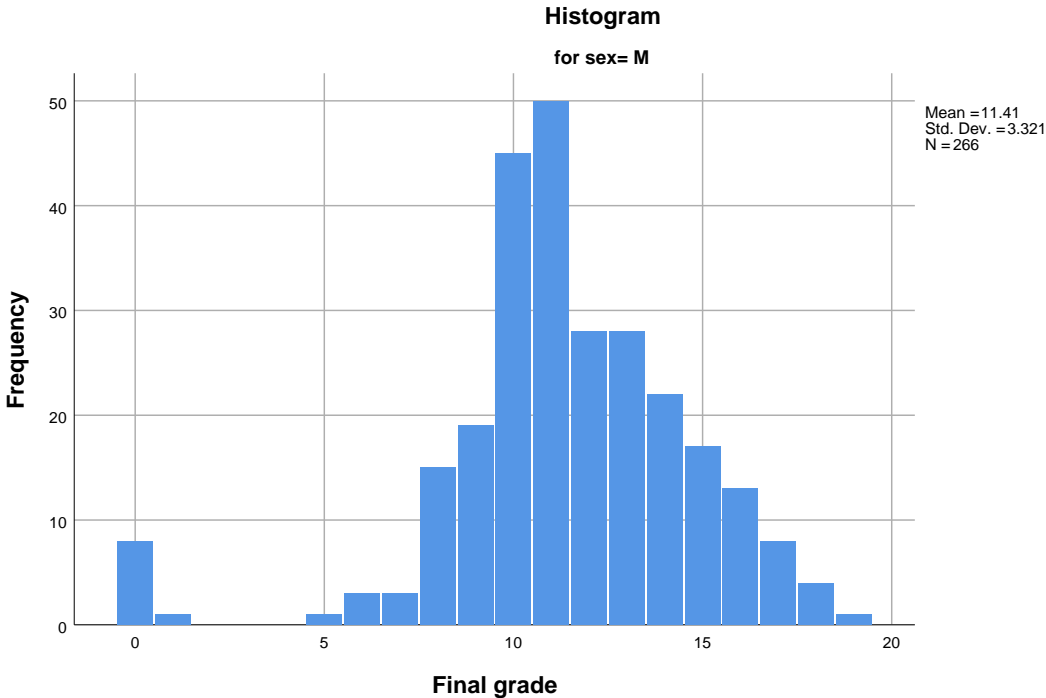
a. Lilliefors Significance Correction

Final grade

Histograms



Normality context
Bartlett assumption

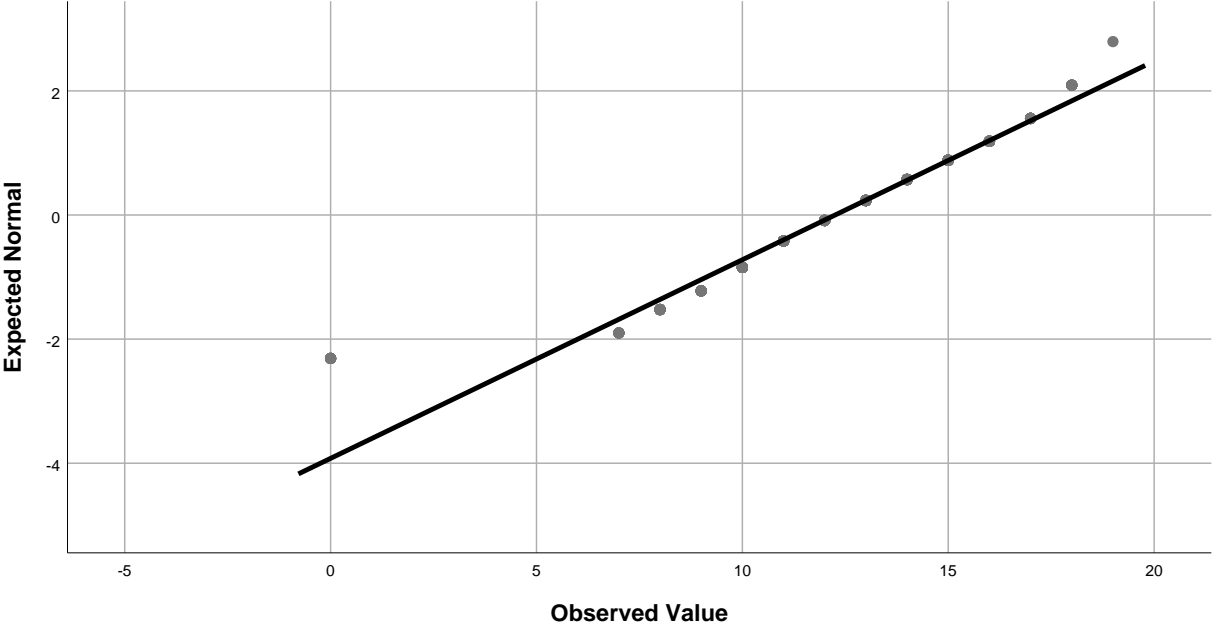


Normal Q-Q Plots

Normality context
Bartlett assumption

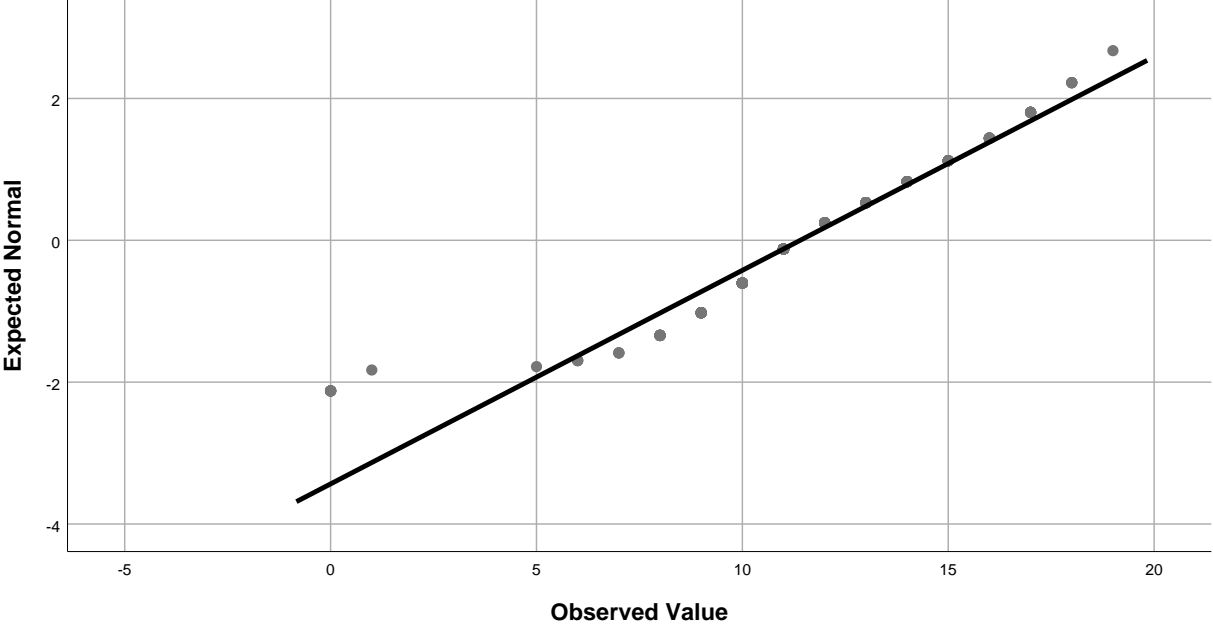
Normal Q-Q Plot of Final grade

for sex= F



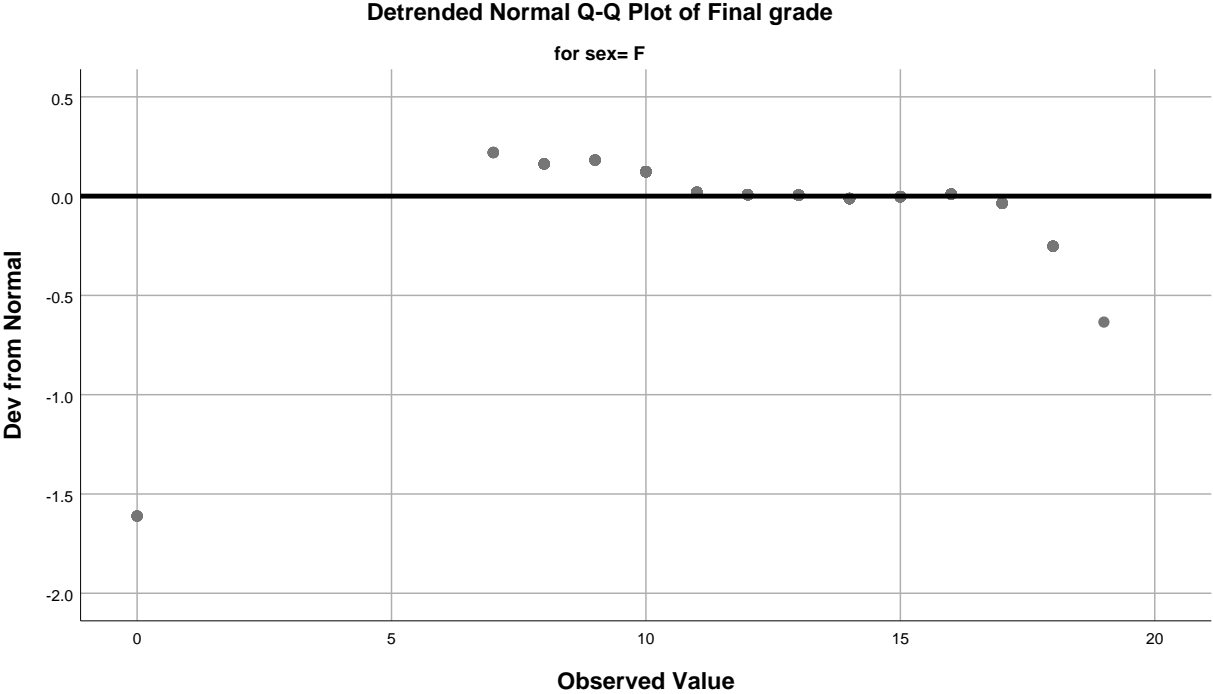
Normal Q-Q Plot of Final grade

for sex= M



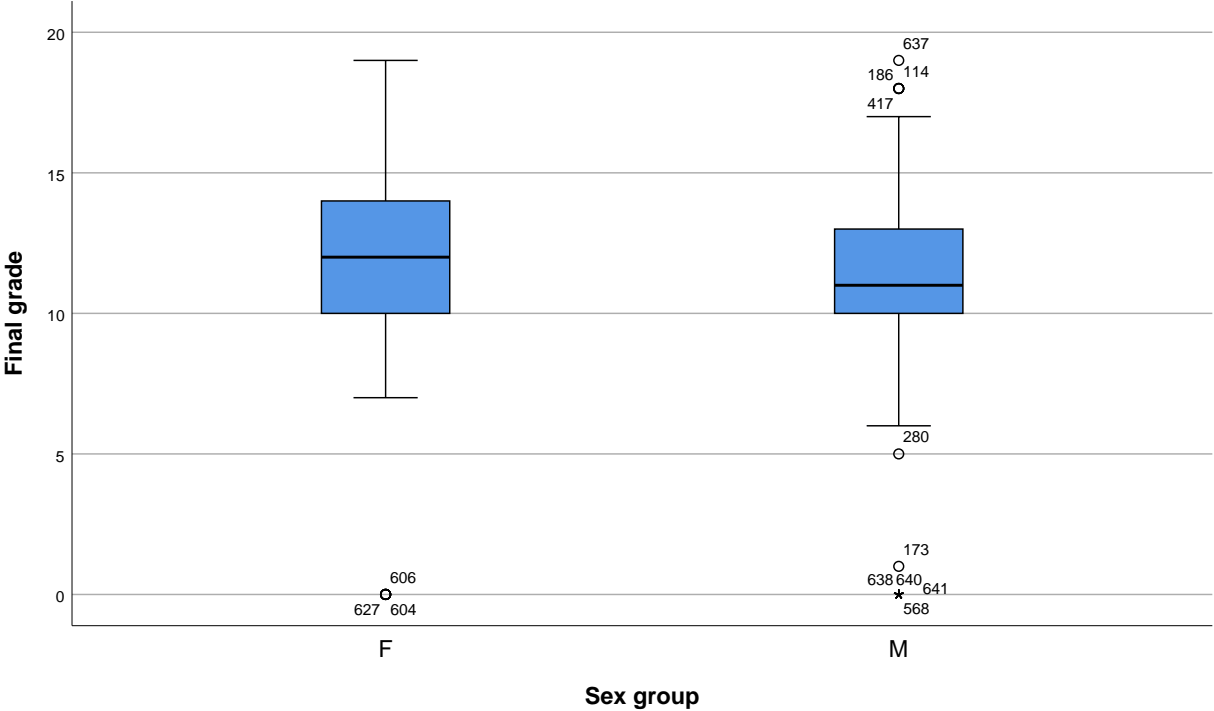
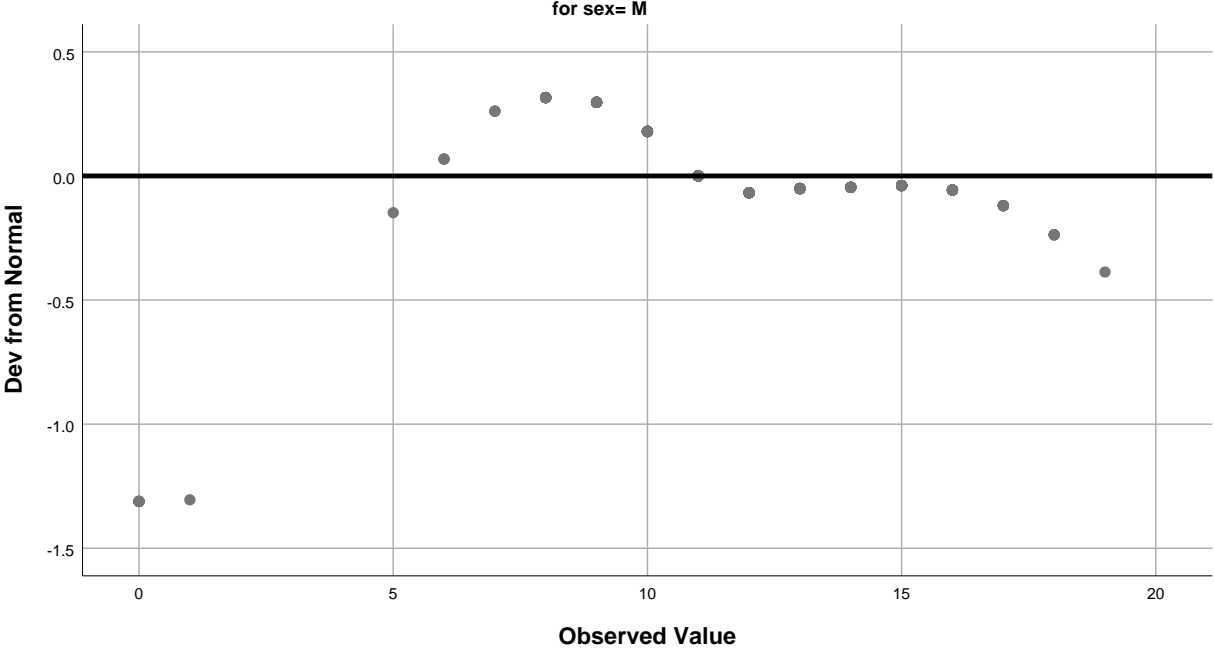
Normality context
Bartlett assumption

Detrended Normal Q-Q Plots



Normality context
Bartlett assumption

Detrended Normal Q-Q Plot of Final grade



Bartlett group table

Bartlett group table
Variance components

List

```
[BartlettGroups] D:\DATA ANALYSIS\B Normality and Assumption Tests\Bartletts T  
est\SPSS_Output\temp\bartlett_groups.sav
```

```
>Error # 13007 in column 10. Text: ALL
```

```
>The CASES subcommand specification is incorrect. A number must follow FROM,  
>TO, or BY.
```

```
>Execution of this command stops.
```

Bartlett result

Bartlett result
Equal variances

List

Bartlett result
Equal variances

k_groups	total_n	pooled_variance	bartlett_chisq	bartlett_df	bartlett_p_value	reject_equal_variances_05
2	649.00	10.27911	1.17082	1.00	.27923	.00

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

>Warning # 67. Command name: GET FILE
>The document is already in use by another user or process. If you make
>changes to the document they may overwrite changes made by others or your
>changes may be overwritten by others.
>File opened D:\DATA ANALYSIS\B Normality and Assumption Tests\Bartletts Test\
SPSS_Output\sav\Bartletts-Test-data.sav

Levene context

Levene context
SPSS robustness check

Oneway

[BartlettsData2]

Warnings

Text: sex Command: ONEWAY

A string variable was used in a variable list where only numeric variables are allowed.

Execution of this command stops.
