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Pearson Correlation

Pearson Correlation
Import data

Pearson Correlation: Descriptive Statistics

Pearson Correlation: Descriptive Statistics
Numeric variables used for Pearson correlation

Descriptives

[PearsonCorrelationData] D:\DATA ANALYSIS\G Correlation Tests\Pearson Correlation\SPSS_Output\sav\Pearson-Correlation-data.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Student age	649	15	22	16.74	1.218
Mother education	649	0	4	2.51	1.135
Father education	649	0	4	2.31	1.100
Home to school travel time	649	1	4	1.57	.749
Weekly study time	649	1	4	1.93	.830
Number of past class failures	649	0	3	.22	.593
Quality of family relationships	649	1	5	3.93	.956
Free time after school	649	1	5	3.18	1.051
Going out with friends	649	1	5	3.18	1.176
Workday alcohol consumption	649	1	5	1.50	.925
Weekend alcohol consumption	649	1	5	2.28	1.284
Current health status	649	1	5	3.54	1.446
Number of school absences	649	0	32	3.66	4.641
First period grade	649	0	19	11.40	2.745
Second period grade	649	0	19	11.57	2.914
Final grade / main outcome	649	0	19	11.91	3.231
Valid N (listwise)	649				

Pearson Correlation: Assumption Context

>Warning # 2004. Command name: SUBTITLE

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

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

Explore

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Student age	649	100.0%	0	0.0%	649	100.0%
Mother education	649	100.0%	0	0.0%	649	100.0%
Father education	649	100.0%	0	0.0%	649	100.0%
Home to school travel time	649	100.0%	0	0.0%	649	100.0%
Weekly study time	649	100.0%	0	0.0%	649	100.0%
Number of past class failures	649	100.0%	0	0.0%	649	100.0%
Quality of family relationships	649	100.0%	0	0.0%	649	100.0%
Free time after school	649	100.0%	0	0.0%	649	100.0%
Going out with friends	649	100.0%	0	0.0%	649	100.0%
Workday alcohol consumption	649	100.0%	0	0.0%	649	100.0%
Weekend alcohol consumption	649	100.0%	0	0.0%	649	100.0%
Current health status	649	100.0%	0	0.0%	649	100.0%
Number of school absences	649	100.0%	0	0.0%	649	100.0%
First period grade	649	100.0%	0	0.0%	649	100.0%
Second period grade	649	100.0%	0	0.0%	649	100.0%
Final grade / main outcome	649	100.0%	0	0.0%	649	100.0%

Pearson Correlation : Assumption Context
Check distributions and possible outliers before interpretin

Descriptives

			Statistic	Std. Error
Student age	Mean		16.74	.048
	95% Confidence Interval for Mean	Lower Bound	16.65	
		Upper Bound	16.84	
	5% Trimmed Mean		16.69	
	Median		17.00	
	Variance		1.484	
	Std. Deviation		1.218	
	Minimum		15	
	Maximum		22	
	Range		7	
	Interquartile Range		2	
	Skewness		.417	.096
	Kurtosis		.072	.192
Mother education	Mean		2.51	.045
	95% Confidence Interval for Mean	Lower Bound	2.43	
		Upper Bound	2.60	
	5% Trimmed Mean		2.53	
	Median		2.00	
	Variance		1.287	
	Std. Deviation		1.135	
	Minimum		0	
	Maximum		4	
	Range		4	
	Interquartile Range		2	
	Skewness		-.030	.096
	Kurtosis		-1.261	.192
Father education	Mean		2.31	.043
	95% Confidence Interval for Mean	Lower Bound	2.22	
		Upper Bound	2.39	
	5% Trimmed Mean		2.30	
	Median		2.00	
	Variance		1.210	

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpreting

Descriptives

		Statistic	Std. Error
	Std. Deviation	1.100	
	Minimum	0	
	Maximum	4	
	Range	4	
	Interquartile Range	2	
	Skewness	.215	.096
	Kurtosis	-1.109	.192
Home to school travel time	Mean	1.57	.029
	95% Confidence Interval for Mean	Lower Bound	1.51
		Upper Bound	1.63
	5% Trimmed Mean	1.49	
	Median	1.00	
	Variance	.560	
	Std. Deviation	.749	
	Minimum	1	
	Maximum	4	
	Range	3	
	Interquartile Range	1	
	Skewness	1.248	.096
	Kurtosis	1.109	.192
Weekly study time	Mean	1.93	.033
	95% Confidence Interval for Mean	Lower Bound	1.87
		Upper Bound	1.99
	5% Trimmed Mean	1.87	
	Median	2.00	
	Variance	.688	
	Std. Deviation	.830	
	Minimum	1	
	Maximum	4	
	Range	3	
	Interquartile Range	1	
	Skewness	.700	.096

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpreting

Descriptives

			Statistic	Std. Error
Number of past class failures	Kurtosis		.038	.192
	Mean		.22	.023
	95% Confidence Interval for Mean	Lower Bound	.18	
		Upper Bound	.27	
	5% Trimmed Mean		.12	
	Median		.00	
	Variance		.352	
	Std. Deviation		.593	
	Minimum		0	
	Maximum		3	
	Range		3	
	Interquartile Range		0	
	Skewness		3.093	.096
	Kurtosis		9.824	.192
Quality of family relationships	Mean		3.93	.038
	95% Confidence Interval for Mean	Lower Bound	3.86	
		Upper Bound	4.00	
	5% Trimmed Mean		4.02	
	Median		4.00	
	Variance		.913	
	Std. Deviation		.956	
	Minimum		1	
	Maximum		5	
	Range		4	
	Interquartile Range		1	
	Skewness		-1.106	.096
	Kurtosis		1.349	.192
Free time after school	Mean		3.18	.041
	95% Confidence Interval for Mean	Lower Bound	3.10	
		Upper Bound	3.26	
	5% Trimmed Mean		3.20	
	Median		3.00	

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpreting

Descriptives

		Statistic	Std. Error
	Variance	1.105	
	Std. Deviation	1.051	
	Minimum	1	
	Maximum	5	
	Range	4	
	Interquartile Range	1	
	Skewness	-.181	.096
	Kurtosis	-.397	.192
Going out with friends	Mean	3.18	.046
	95% Confidence Interval for Mean	Lower Bound	3.09
		Upper Bound	3.28
	5% Trimmed Mean	3.21	
	Median	3.00	
	Variance	1.382	
	Std. Deviation	1.176	
	Minimum	1	
	Maximum	5	
	Range	4	
	Interquartile Range	2	
	Skewness	-.009	.096
	Kurtosis	-.865	.192
Workday alcohol consumption	Mean	1.50	.036
	95% Confidence Interval for Mean	Lower Bound	1.43
		Upper Bound	1.57
	5% Trimmed Mean	1.36	
	Median	1.00	
	Variance	.855	
	Std. Deviation	.925	
	Minimum	1	
	Maximum	5	
	Range	4	
	Interquartile Range	1	

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpreting

Descriptives

		Statistic	Std. Error
	Skewness	2.142	.096
	Kurtosis	4.349	.192
Weekend alcohol consumption	Mean	2.28	.050
	95% Confidence Interval for Mean	Lower Bound	2.18
		Upper Bound	2.38
	5% Trimmed Mean	2.20	
	Median	2.00	
	Variance	1.650	
	Std. Deviation	1.284	
	Minimum	1	
	Maximum	5	
	Range	4	
	Interquartile Range	2	
	Skewness	.636	.096
	Kurtosis	-.771	.192
Current health status	Mean	3.54	.057
	95% Confidence Interval for Mean	Lower Bound	3.42
		Upper Bound	3.65
	5% Trimmed Mean	3.60	
	Median	4.00	
	Variance	2.092	
	Std. Deviation	1.446	
	Minimum	1	
	Maximum	5	
	Range	4	
	Interquartile Range	3	
	Skewness	-.501	.096
	Kurtosis	-1.121	.192
Number of school absences	Mean	3.66	.182
	95% Confidence Interval for Mean	Lower Bound	3.30
		Upper Bound	4.02
	5% Trimmed Mean	3.09	

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpreting

Descriptives

		Statistic	Std. Error
	Median	2.00	
	Variance	21.537	
	Std. Deviation	4.641	
	Minimum	0	
	Maximum	32	
	Range	32	
	Interquartile Range	6	
	Skewness	2.021	.096
	Kurtosis	5.781	.192
First period grade	Mean	11.40	.108
	95% Confidence Interval for Mean	Lower Bound	11.19
		Upper Bound	11.61
	5% Trimmed Mean	11.39	
	Median	11.00	
	Variance	7.536	
	Std. Deviation	2.745	
	Minimum	0	
	Maximum	19	
	Range	19	
	Interquartile Range	3	
	Skewness	-.003	.096
	Kurtosis	.037	.192
Second period grade	Mean	11.57	.114
	95% Confidence Interval for Mean	Lower Bound	11.35
		Upper Bound	11.79
	5% Trimmed Mean	11.60	
	Median	11.00	
	Variance	8.489	
	Std. Deviation	2.914	
	Minimum	0	
	Maximum	19	
	Range	19	

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

Descriptives

		Statistic	Std. Error
	Interquartile Range	3	
	Skewness	-.360	.096
	Kurtosis	1.662	.192
Final grade / main outcome	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

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

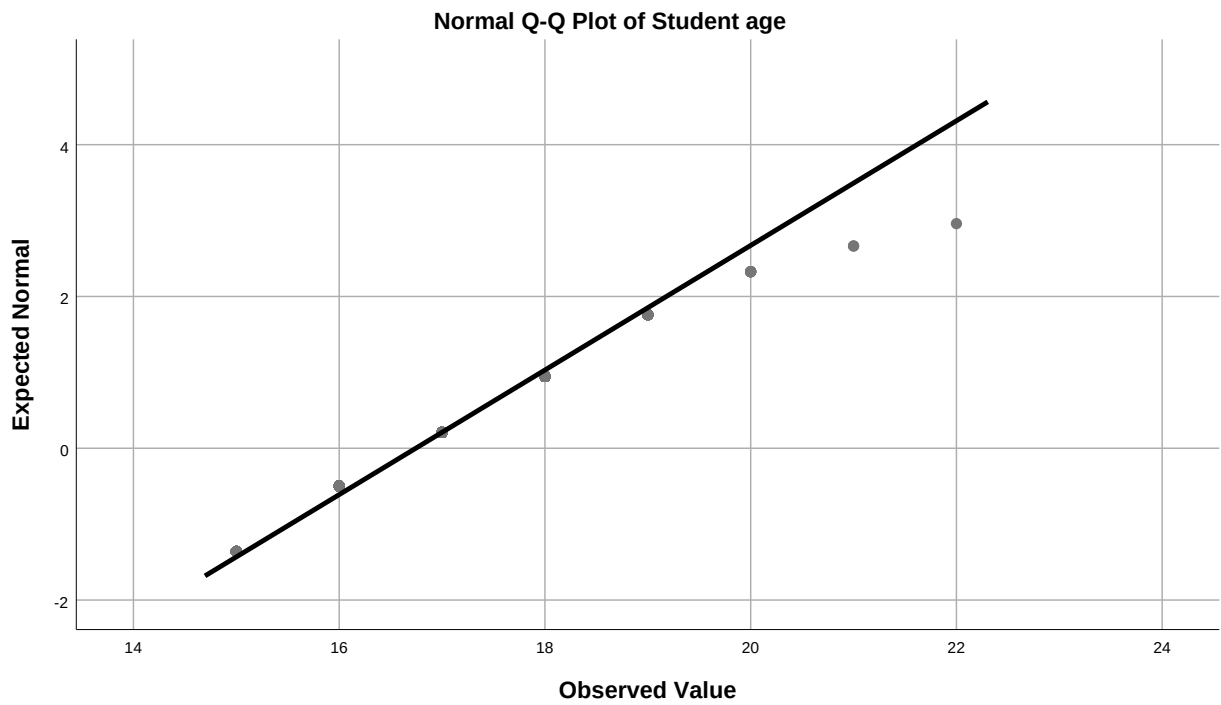
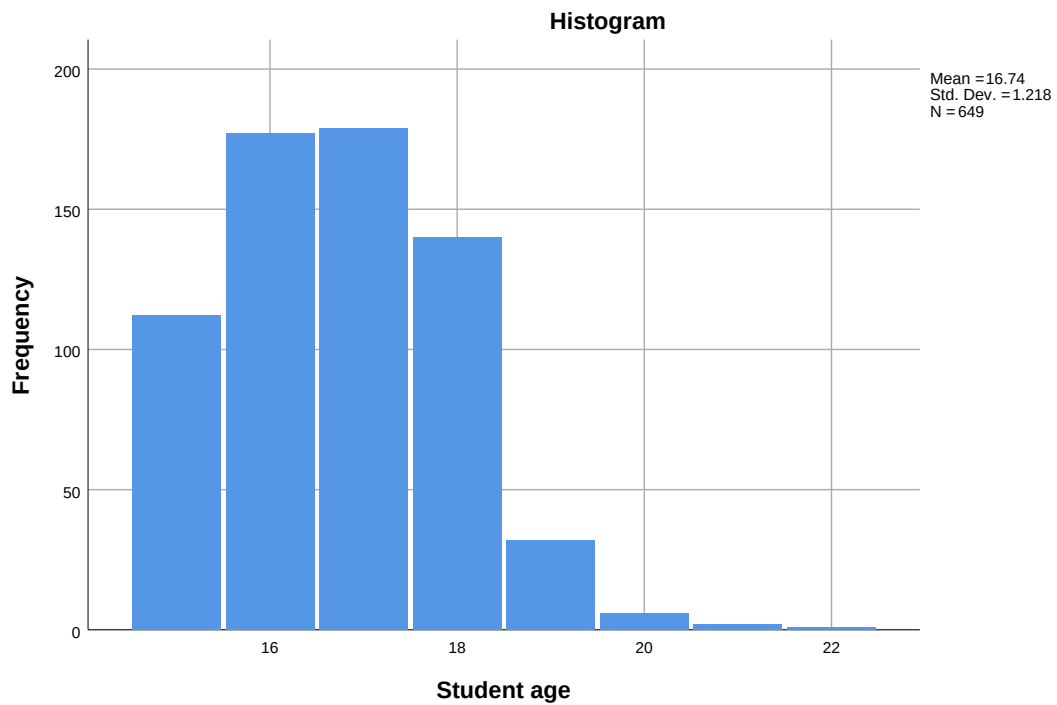
Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Student age	.175	649	.000	.916	649	.000
Mother education	.191	649	.000	.870	649	.000
Father education	.211	649	.000	.875	649	.000
Home to school travel time	.340	649	.000	.725	649	.000
Weekly study time	.263	649	.000	.825	649	.000
Number of past class failures	.492	649	.000	.424	649	.000
Quality of family relationships	.295	649	.000	.818	649	.000
Free time after school	.198	649	.000	.910	649	.000
Going out with friends	.176	649	.000	.911	649	.000
Workday alcohol consumption	.401	649	.000	.601	649	.000
Weekend alcohol consumption	.221	649	.000	.846	649	.000
Current health status	.228	649	.000	.837	649	.000
Number of school absences	.215	649	.000	.772	649	.000
First period grade	.086	649	.000	.986	649	.000
Second period grade	.088	649	.000	.962	649	.000
Final grade / main outcome	.124	649	.000	.926	649	.000

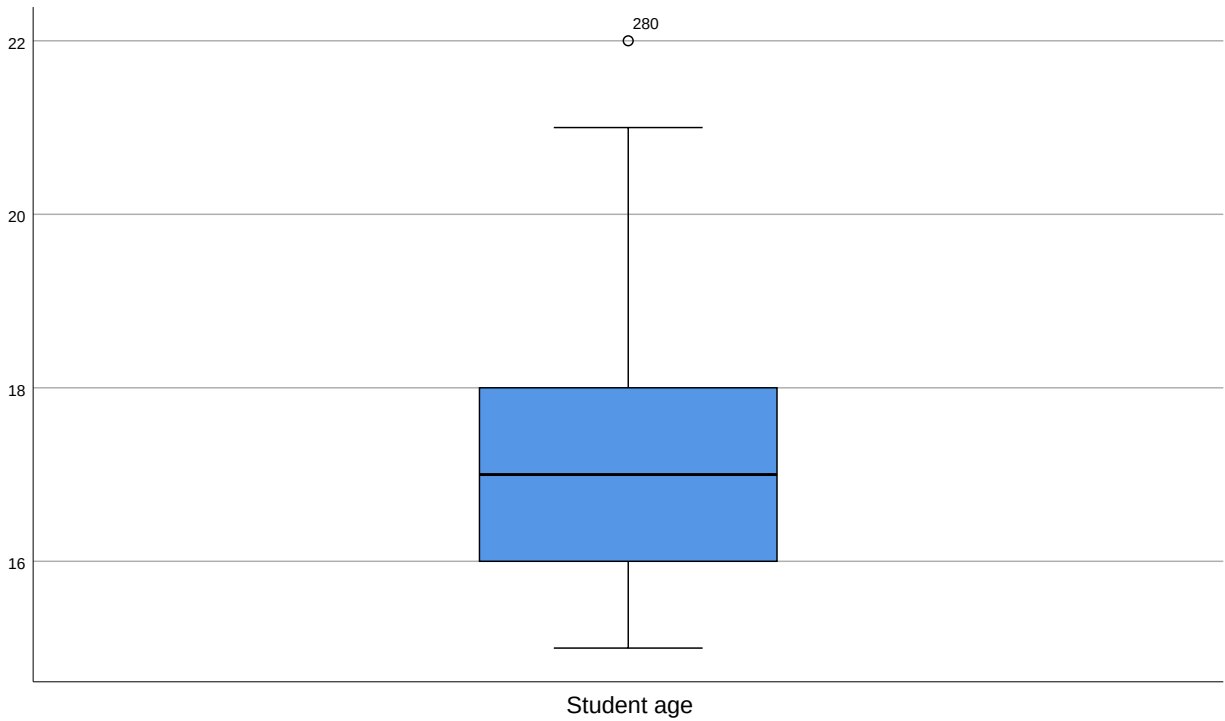
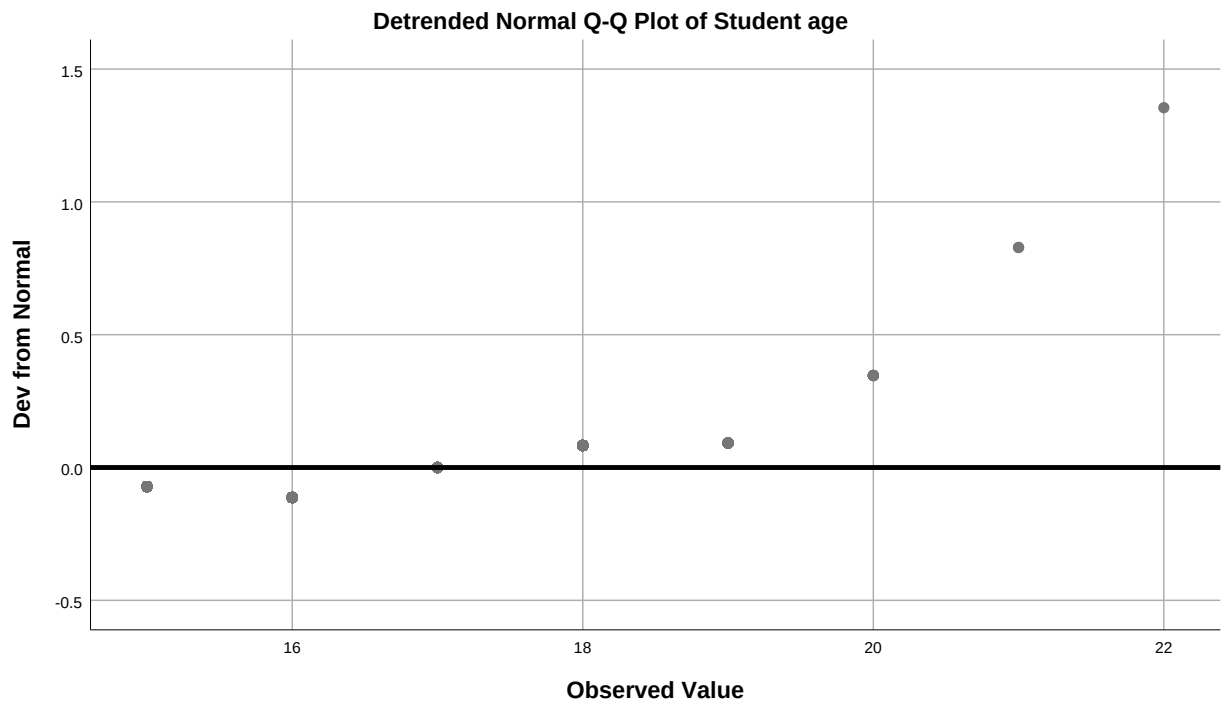
a. Lilliefors Significance Correction

Student age

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

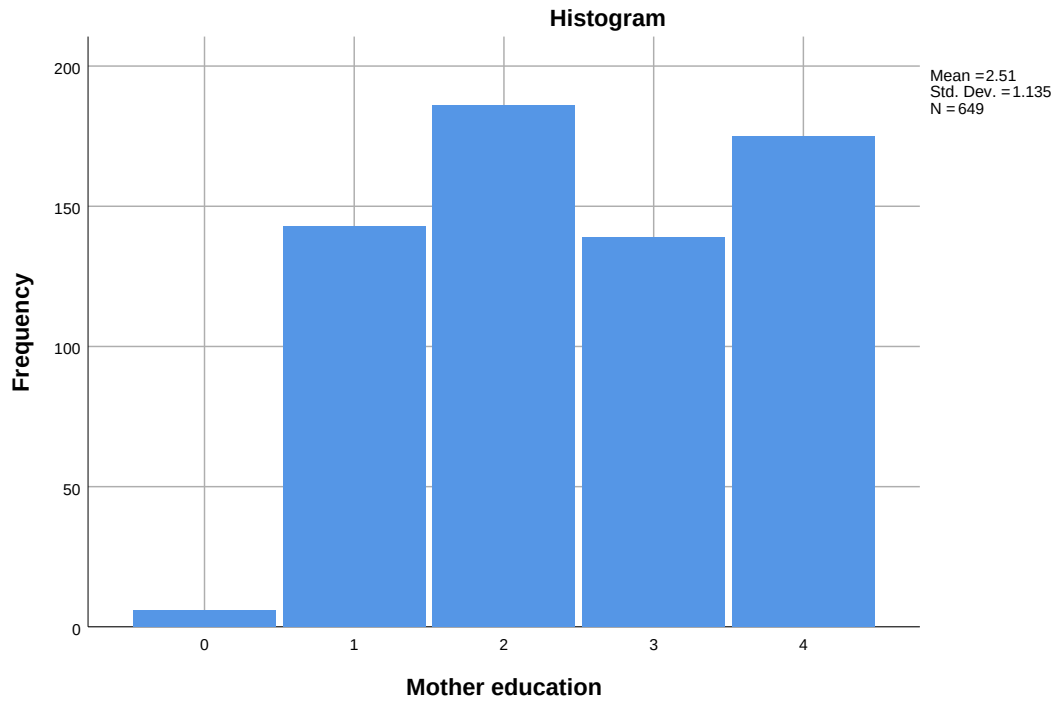


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

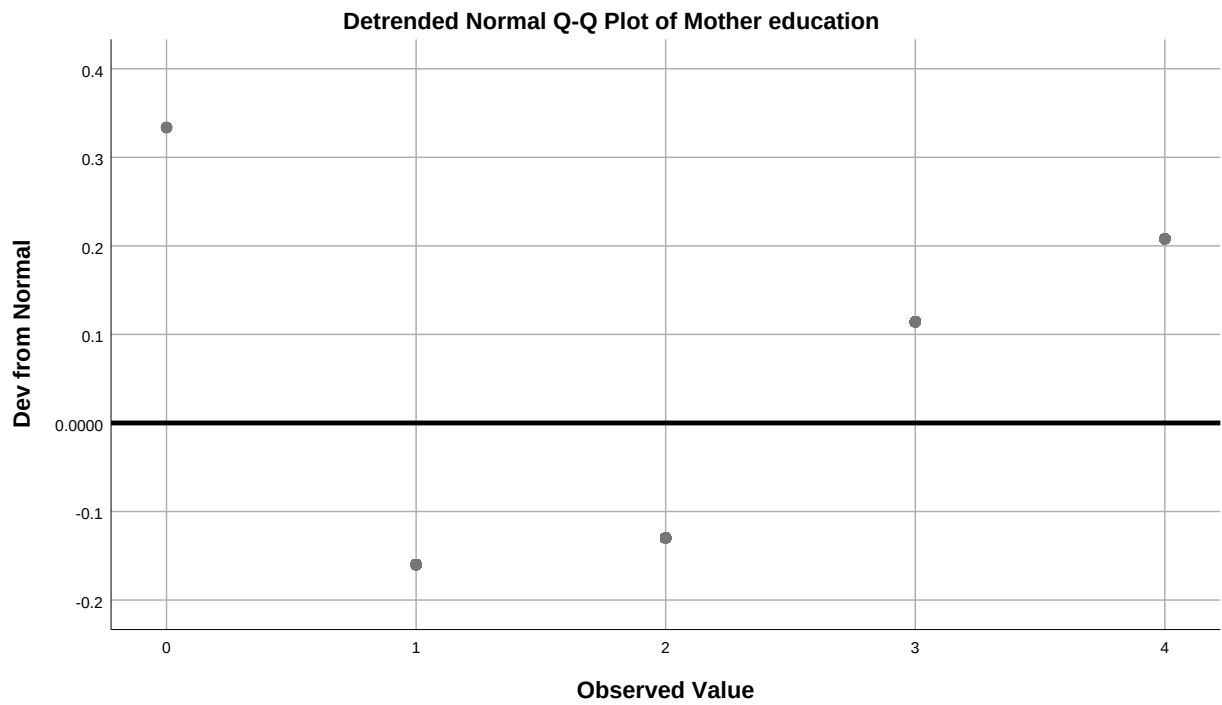
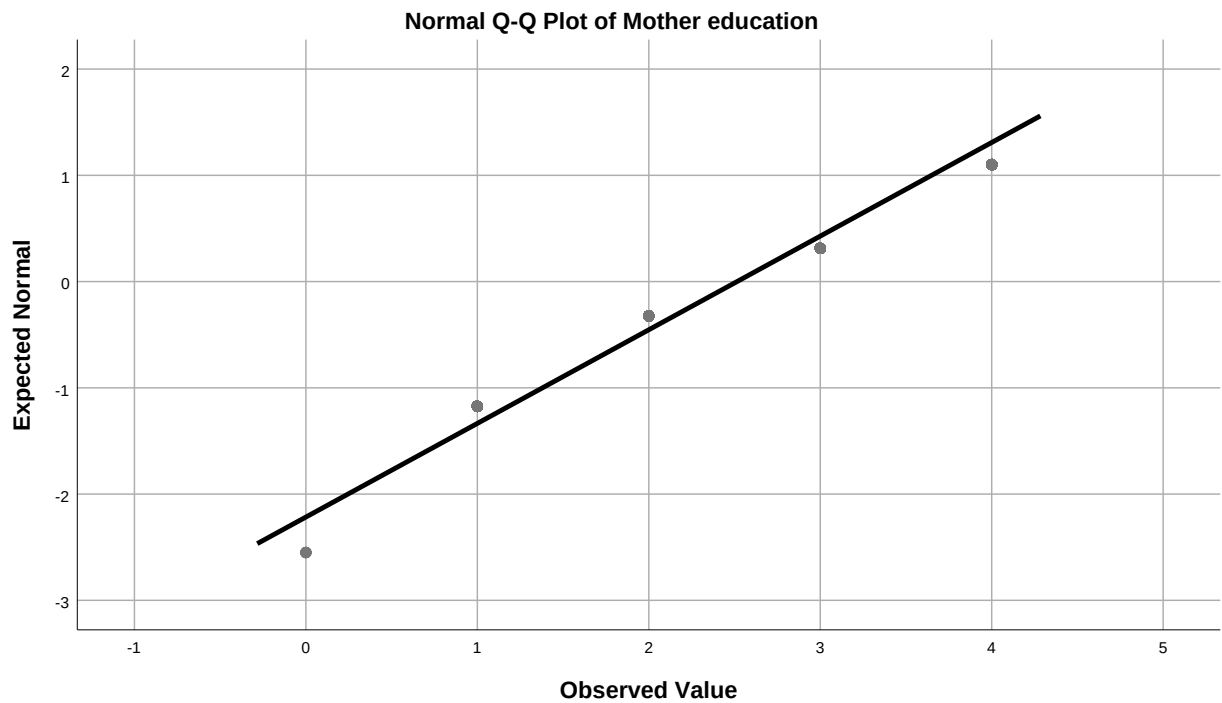


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

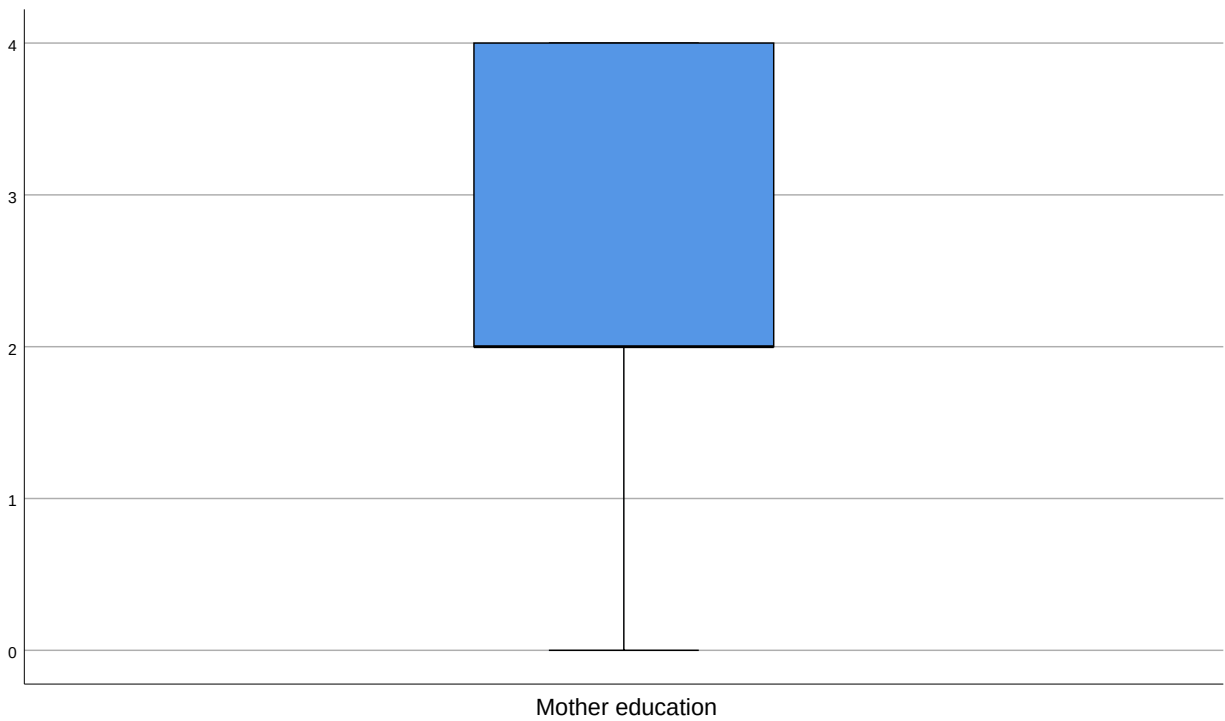
Mother education



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

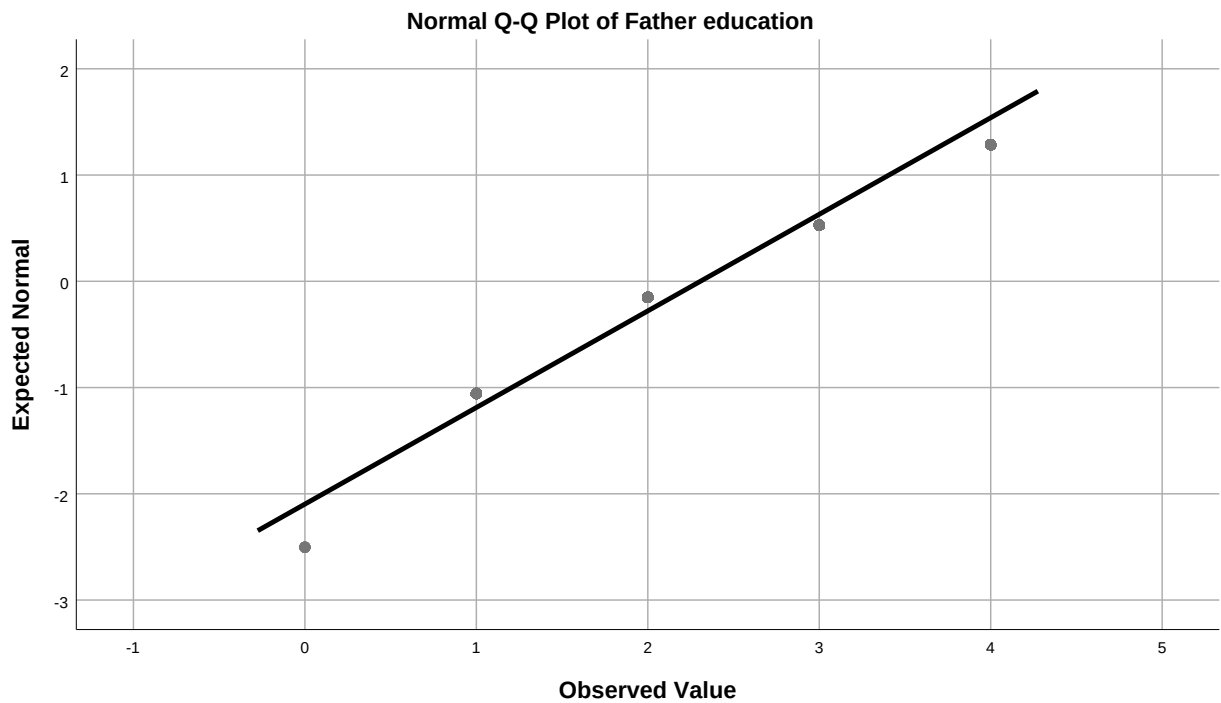
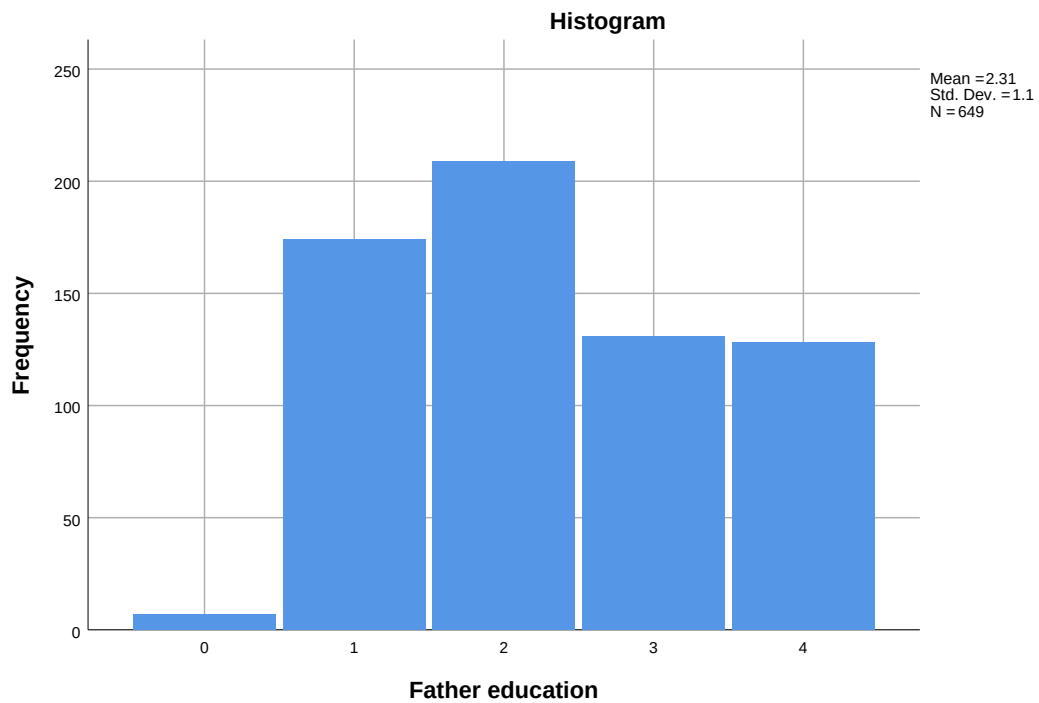


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

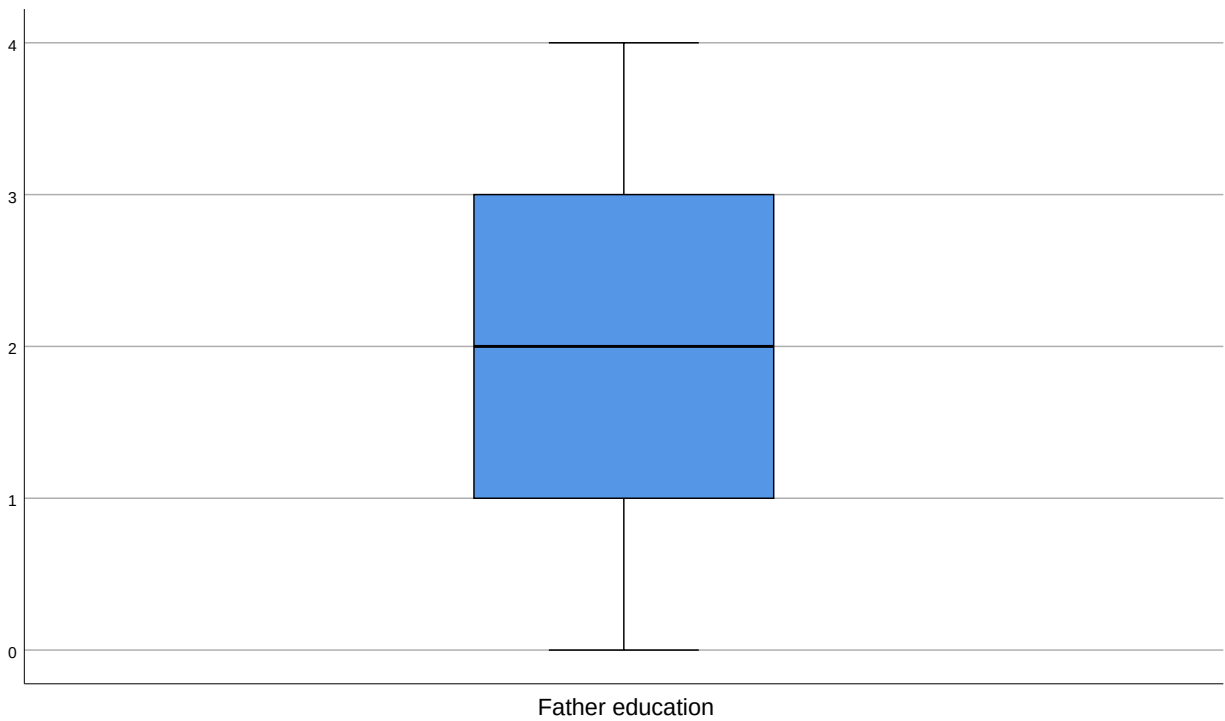
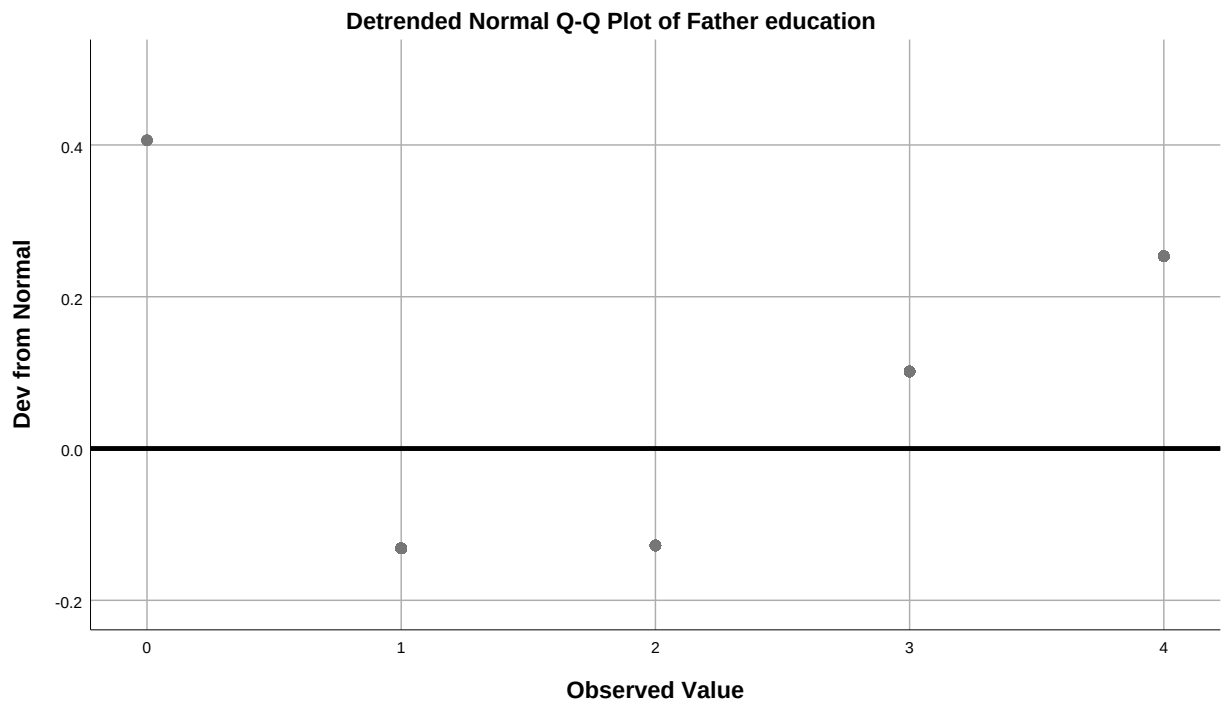


Father education

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

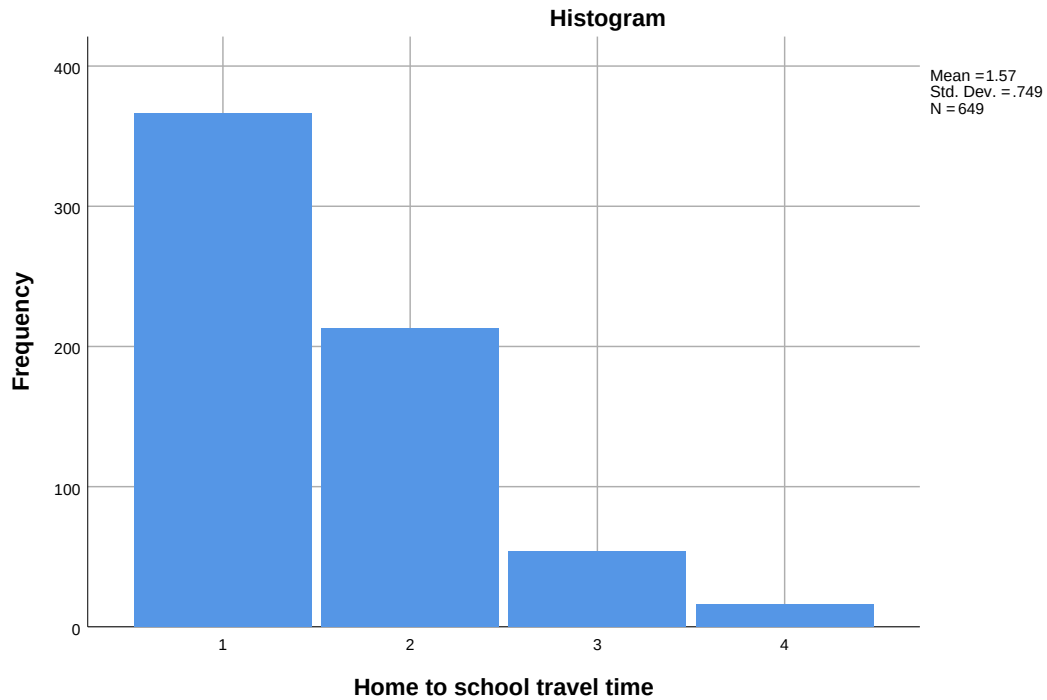


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

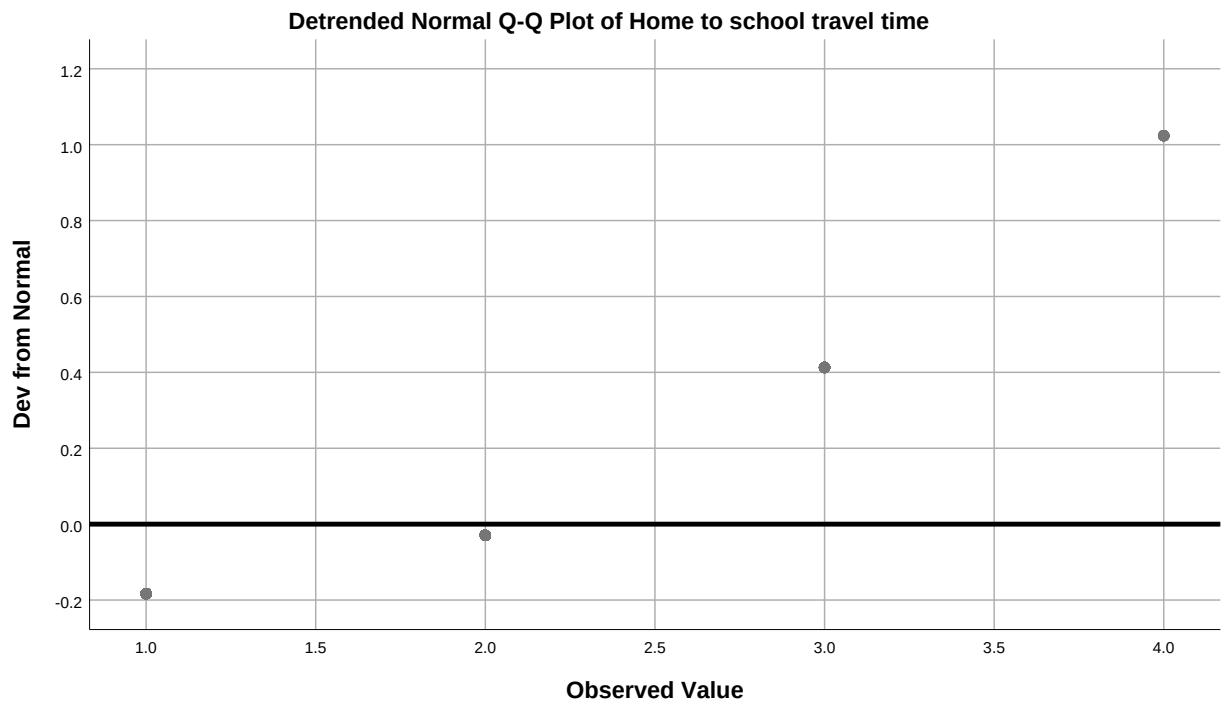
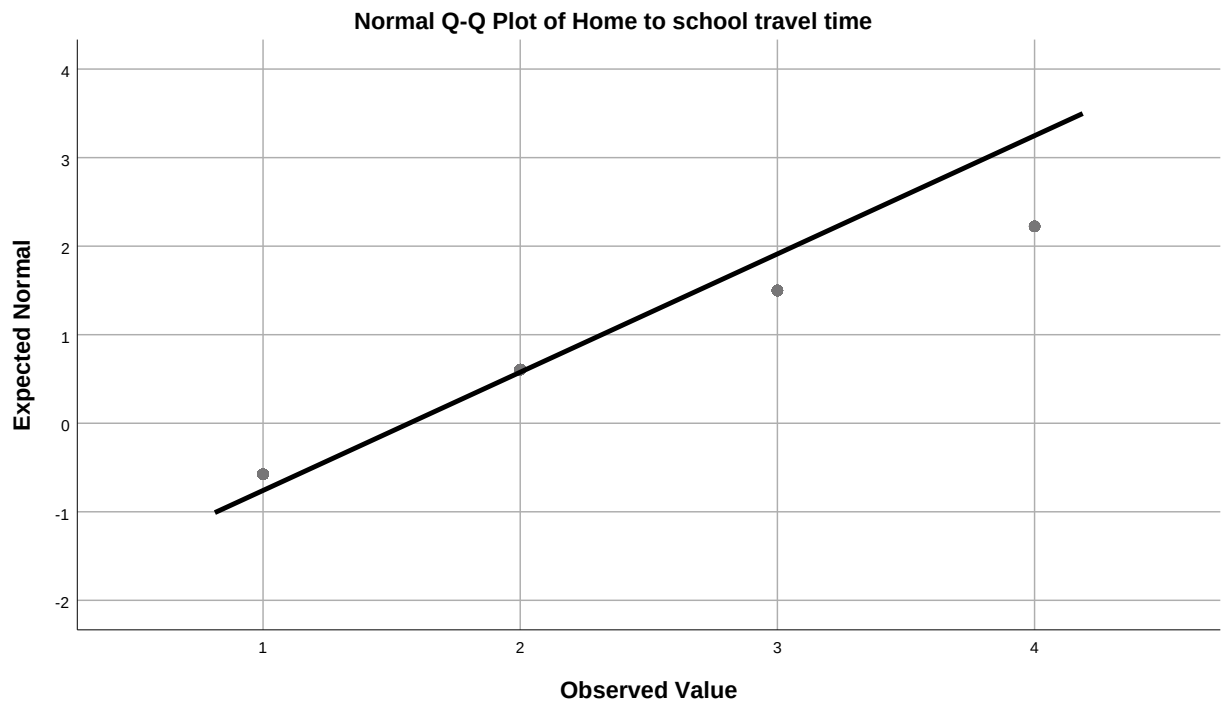


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

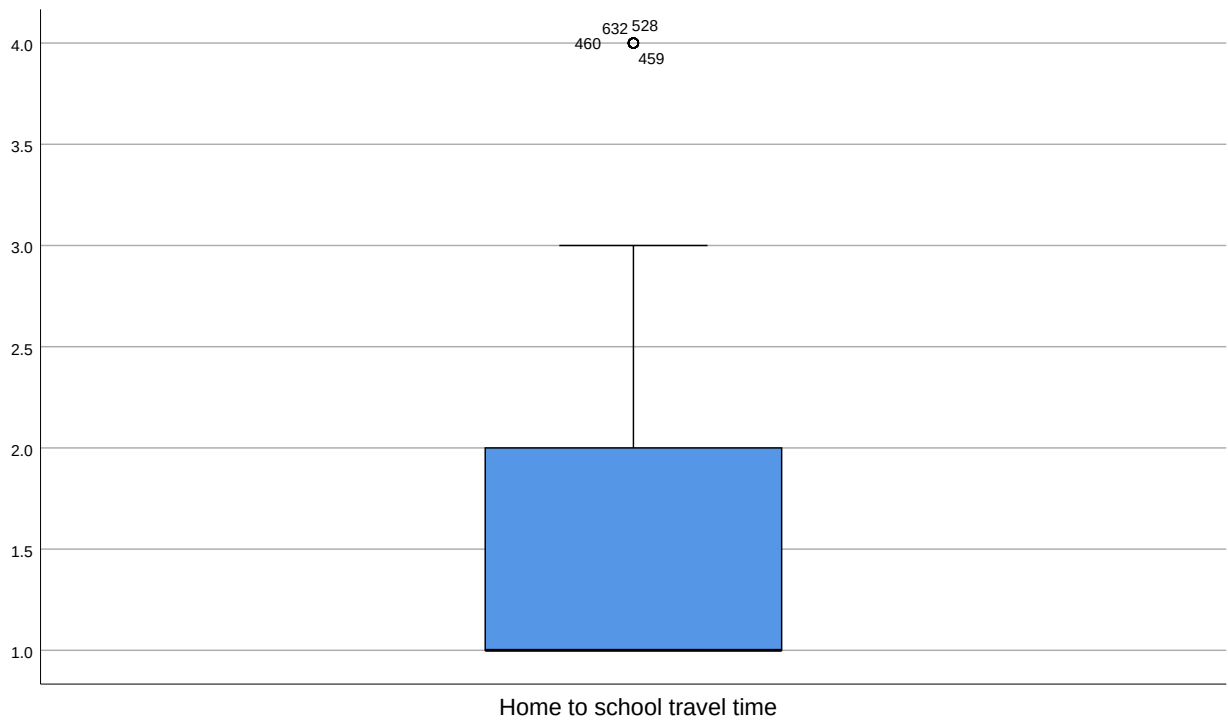
Home to school travel time



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

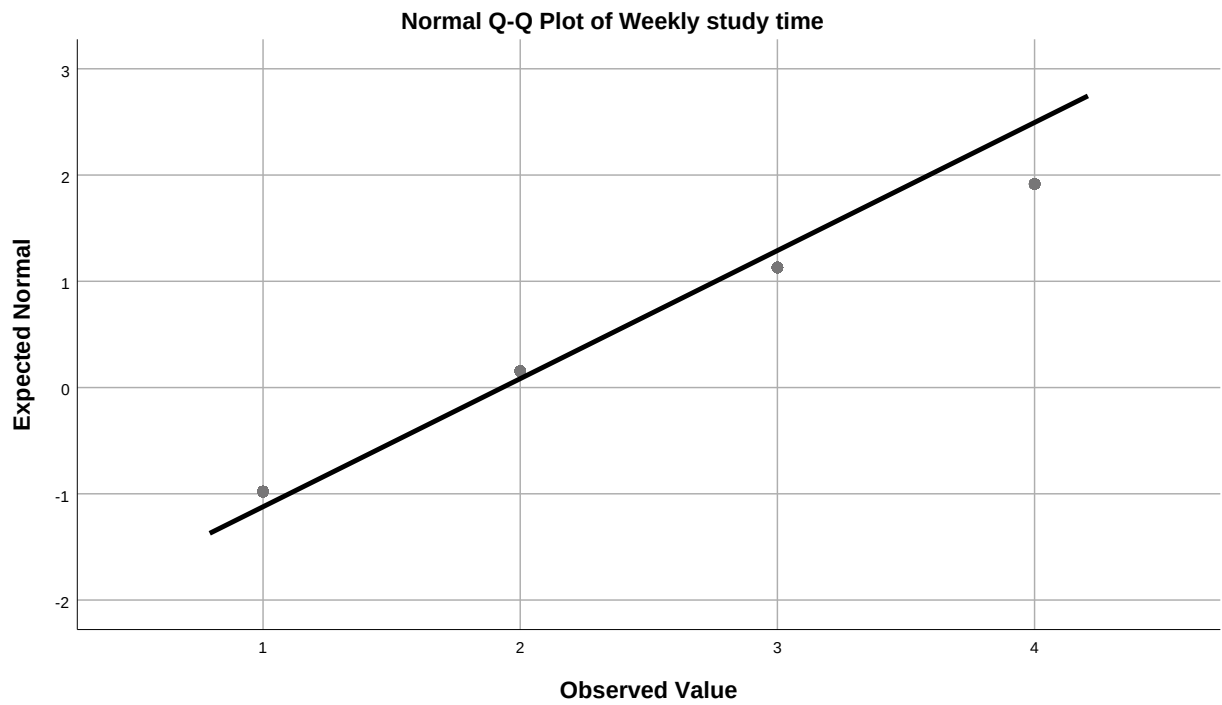
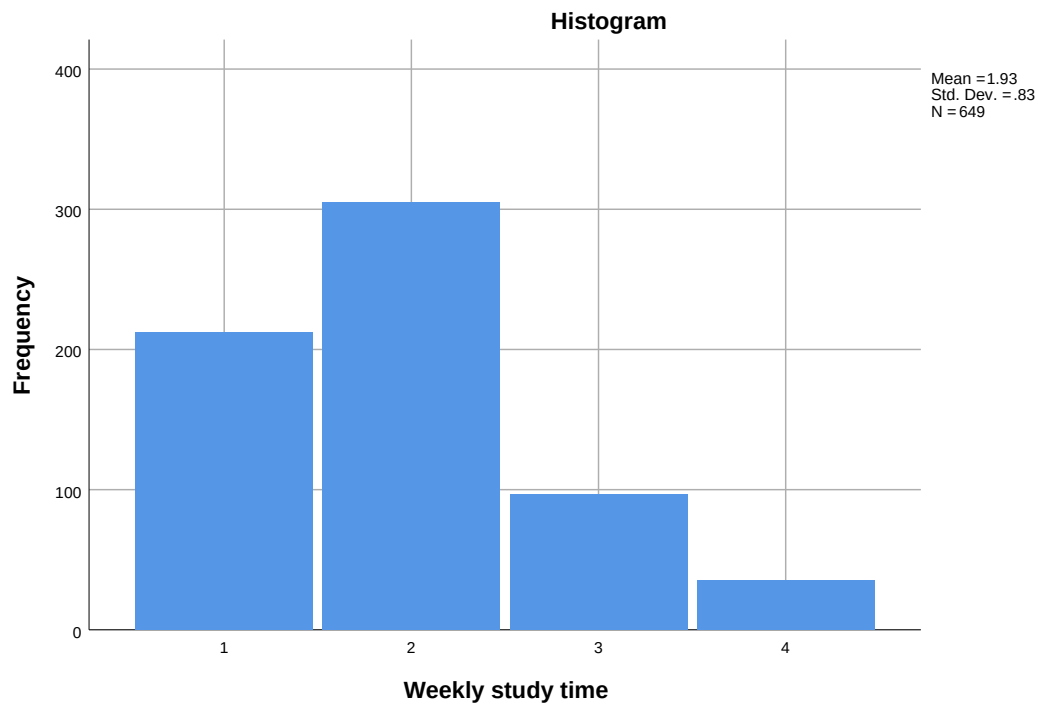


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

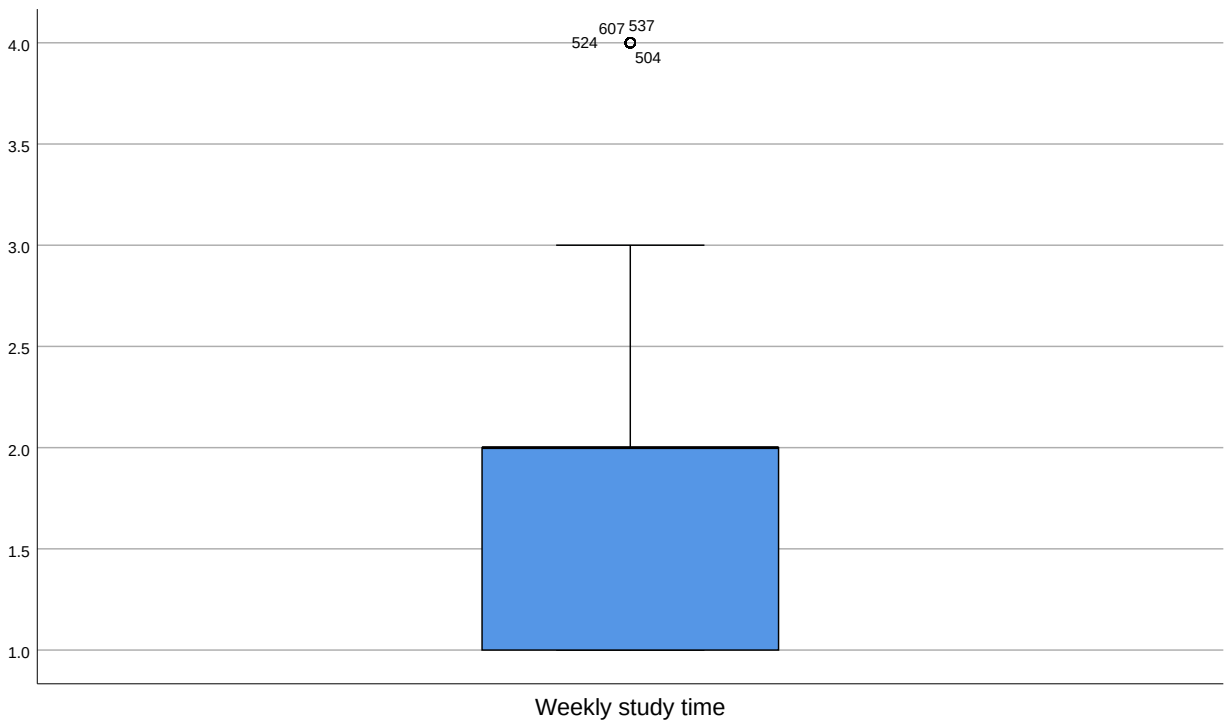
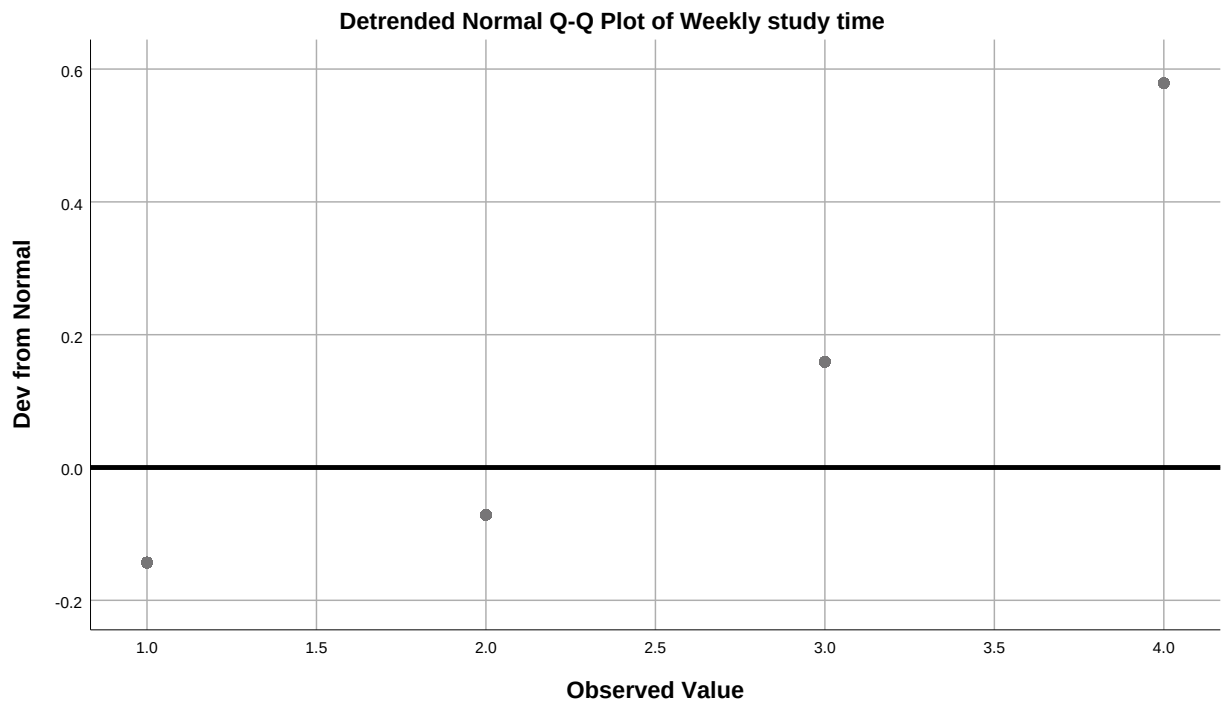


Weekly study time

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

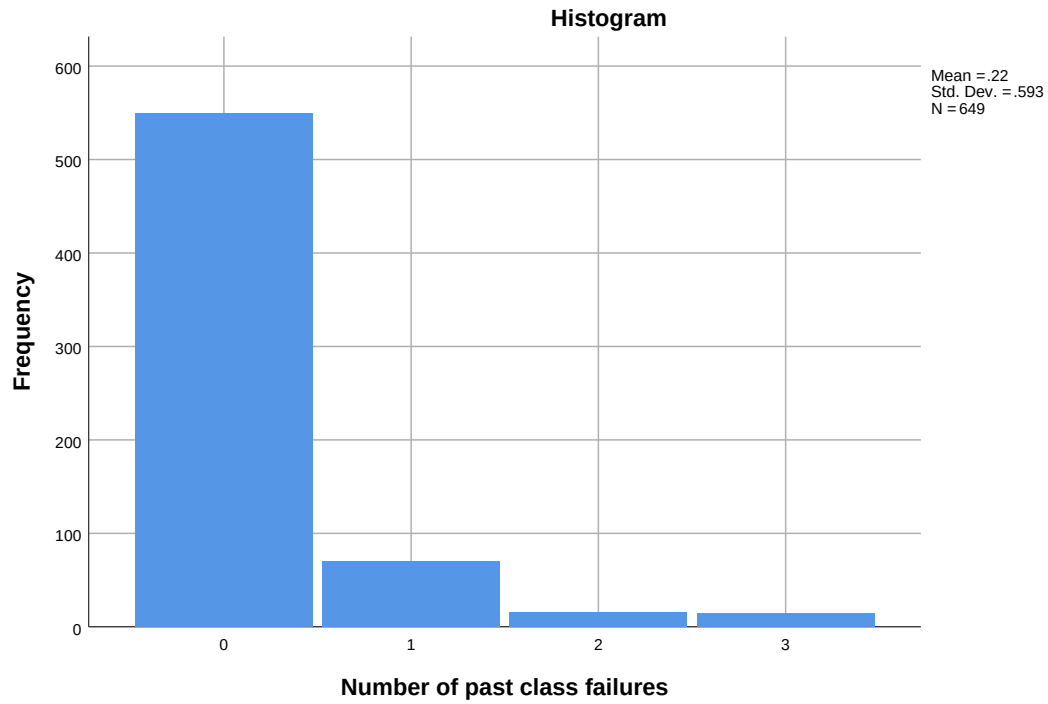


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

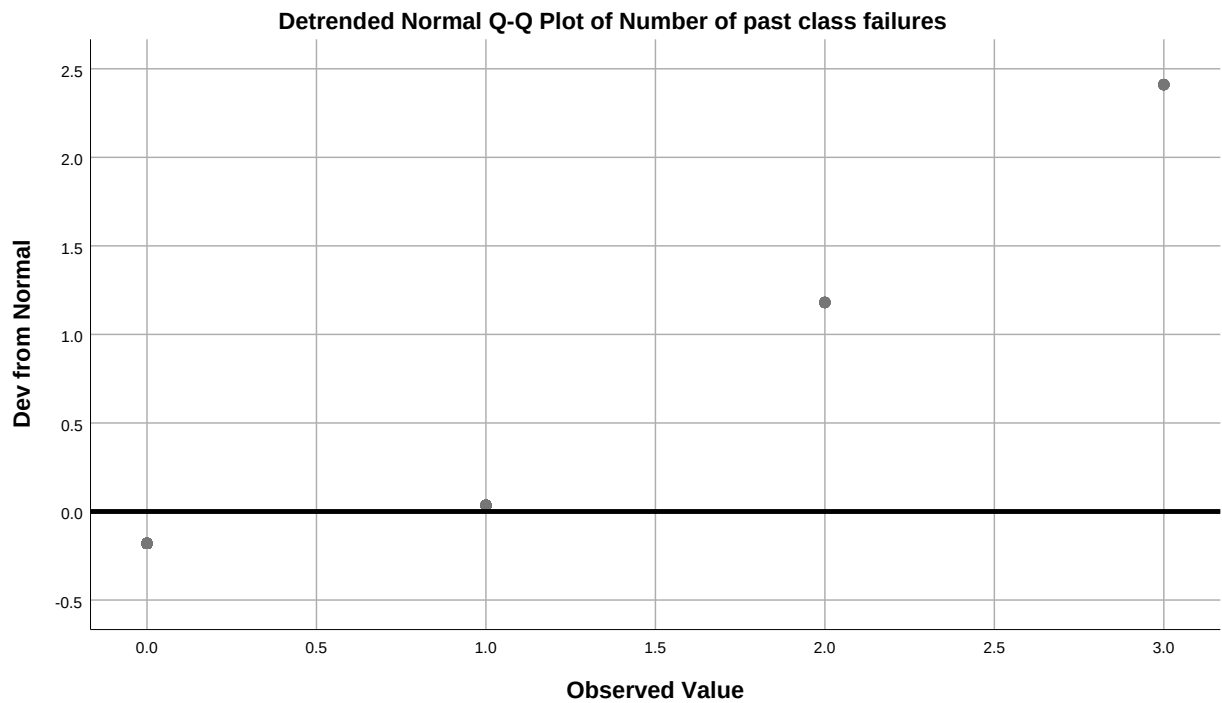
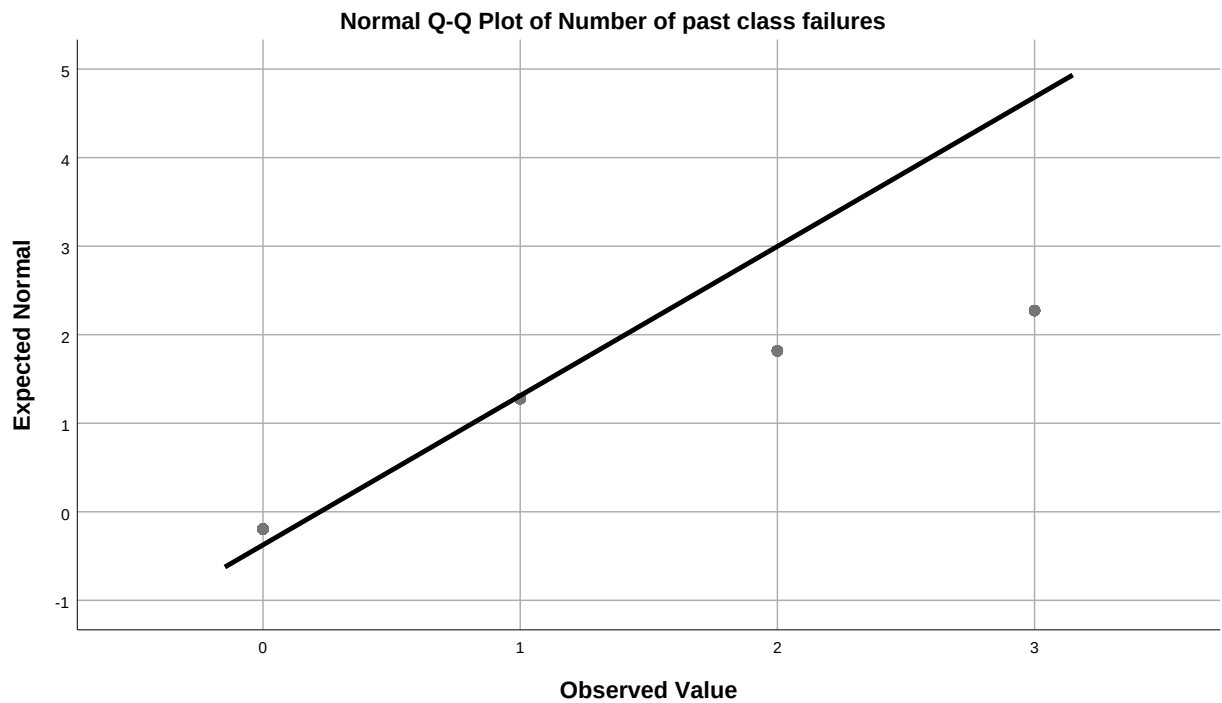


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

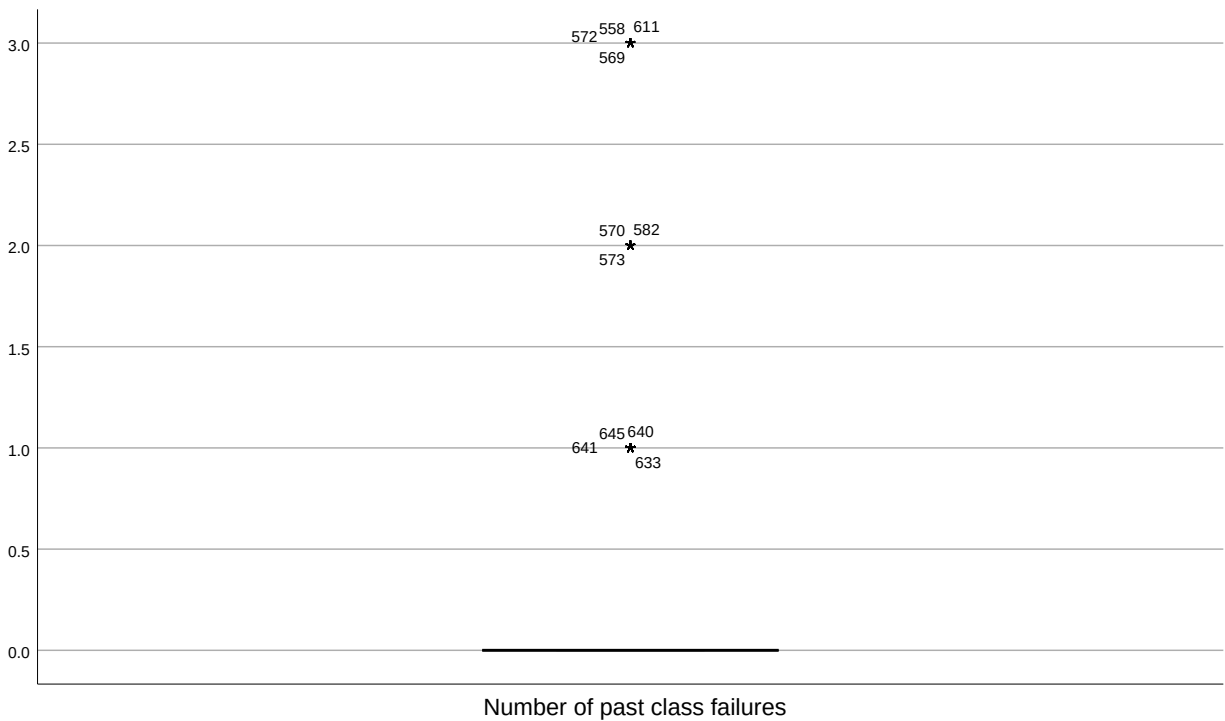
Number of past class failures



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

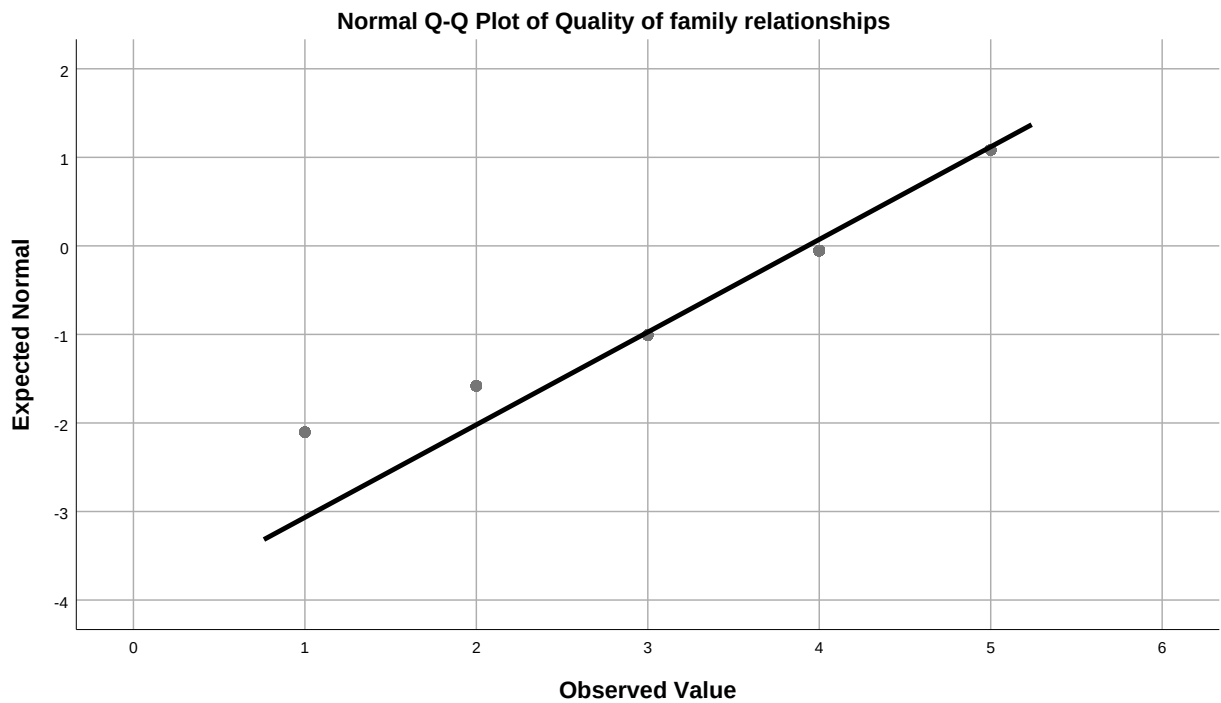
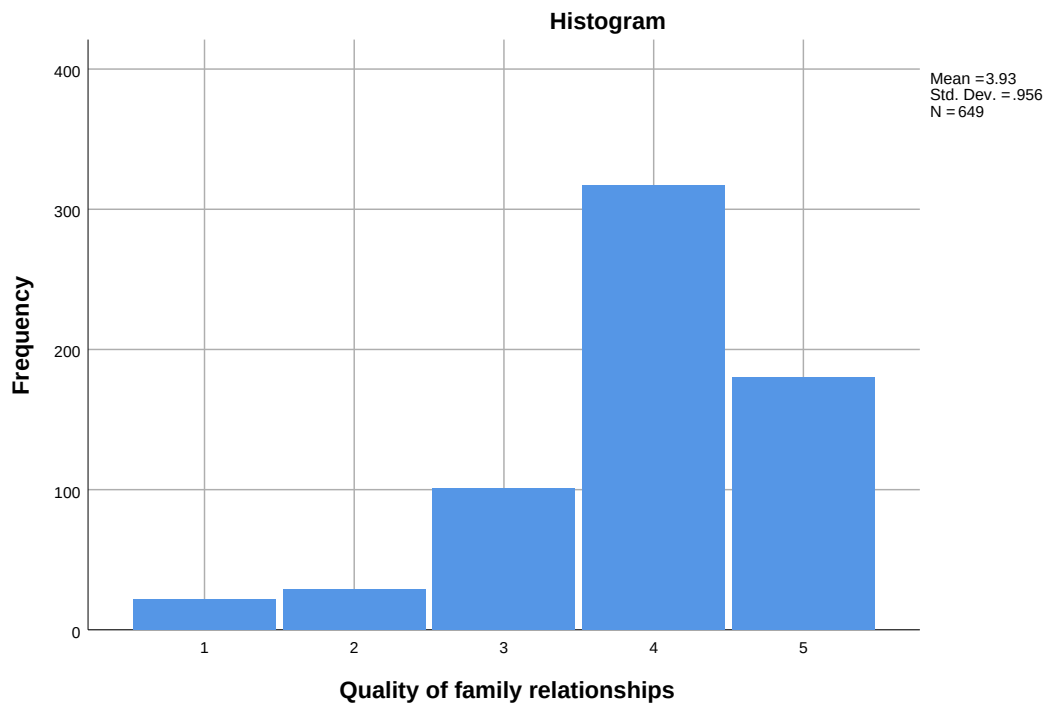


Pearson Correlation: Assumption Context
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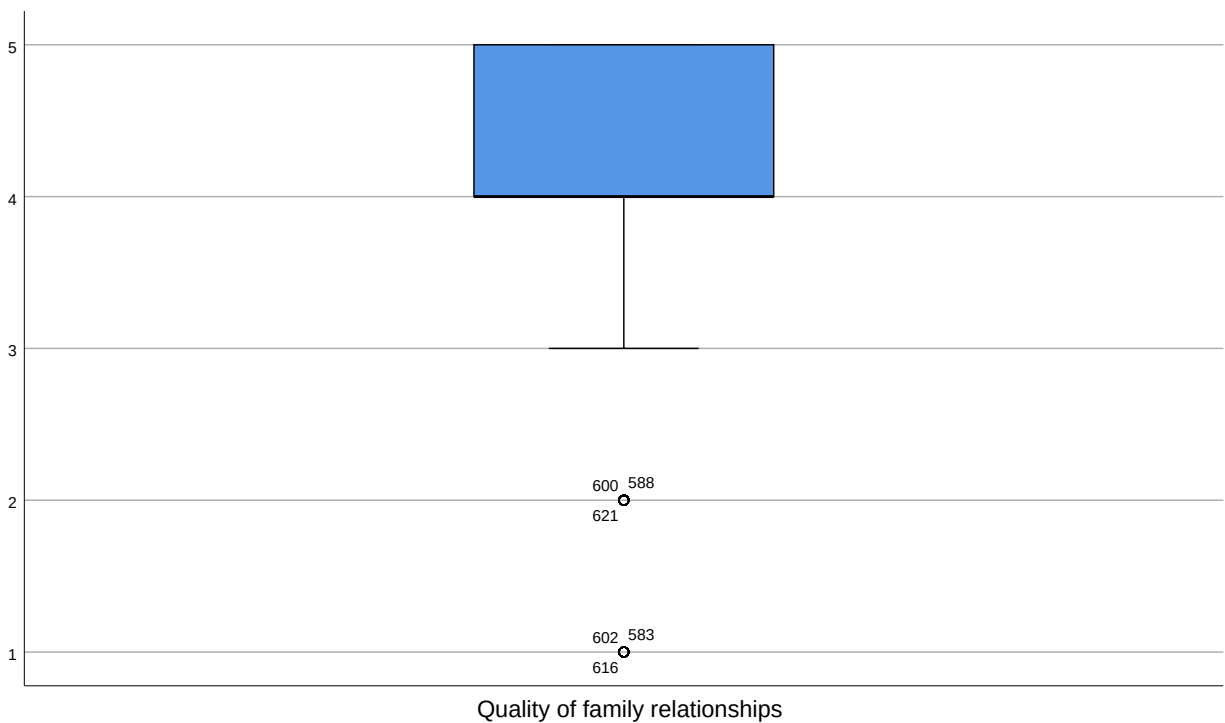
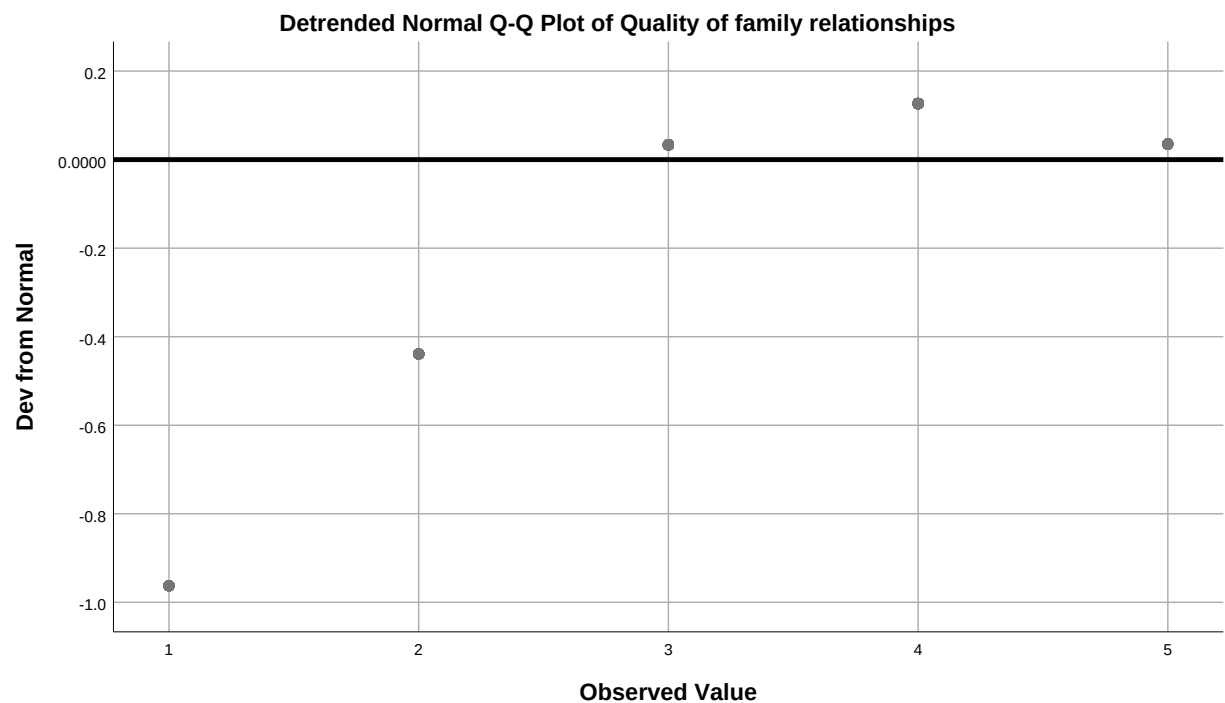


Quality of family relationships

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

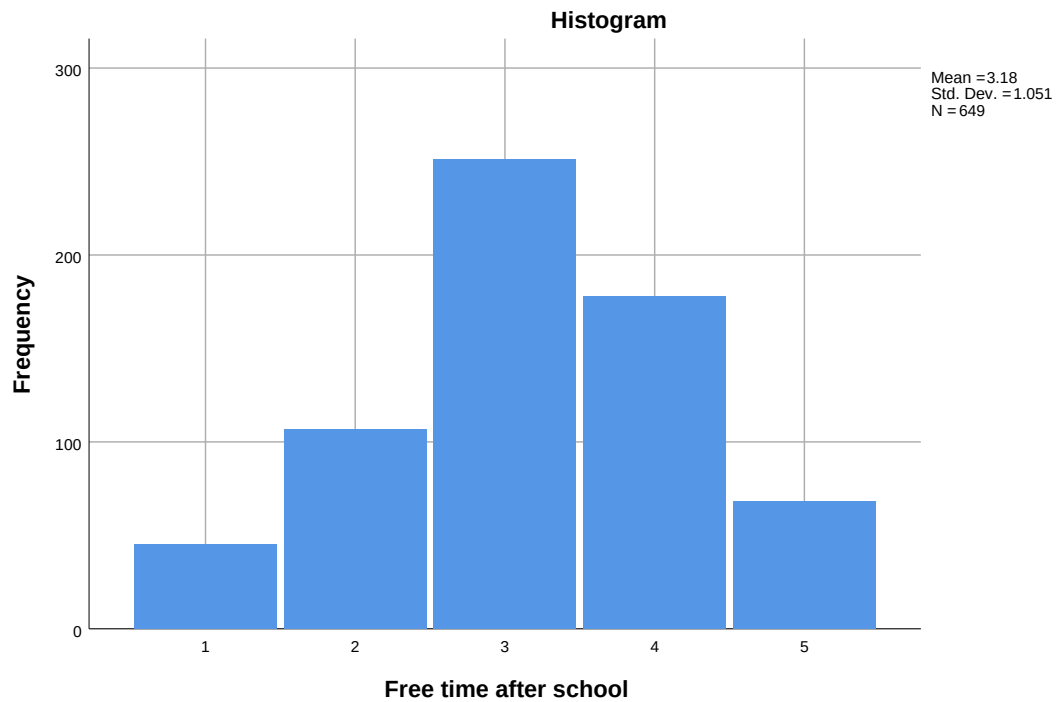


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

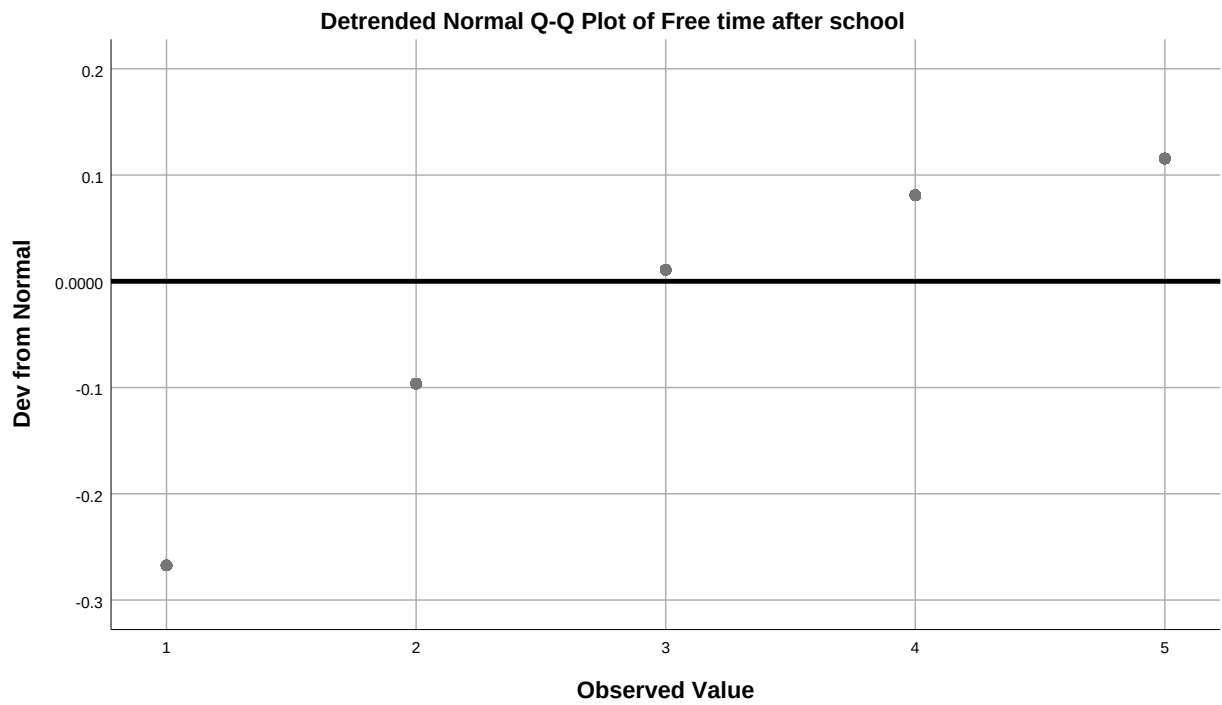
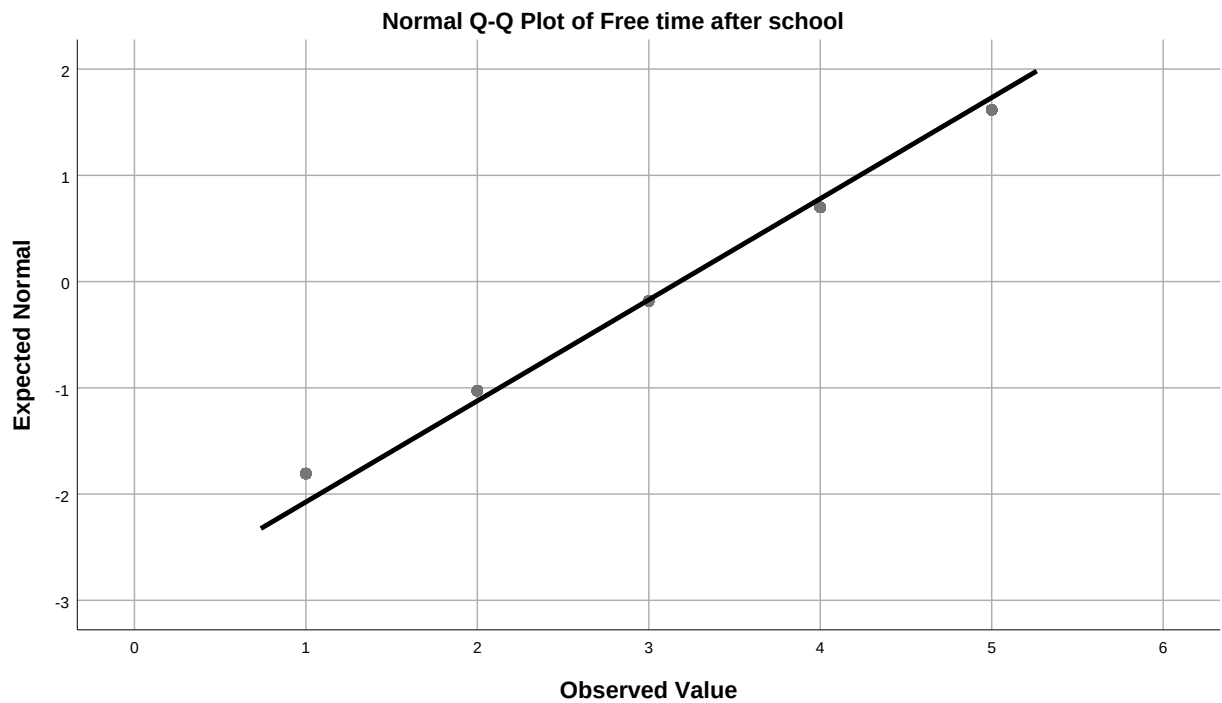


Pearson Correlation: Assumption Context
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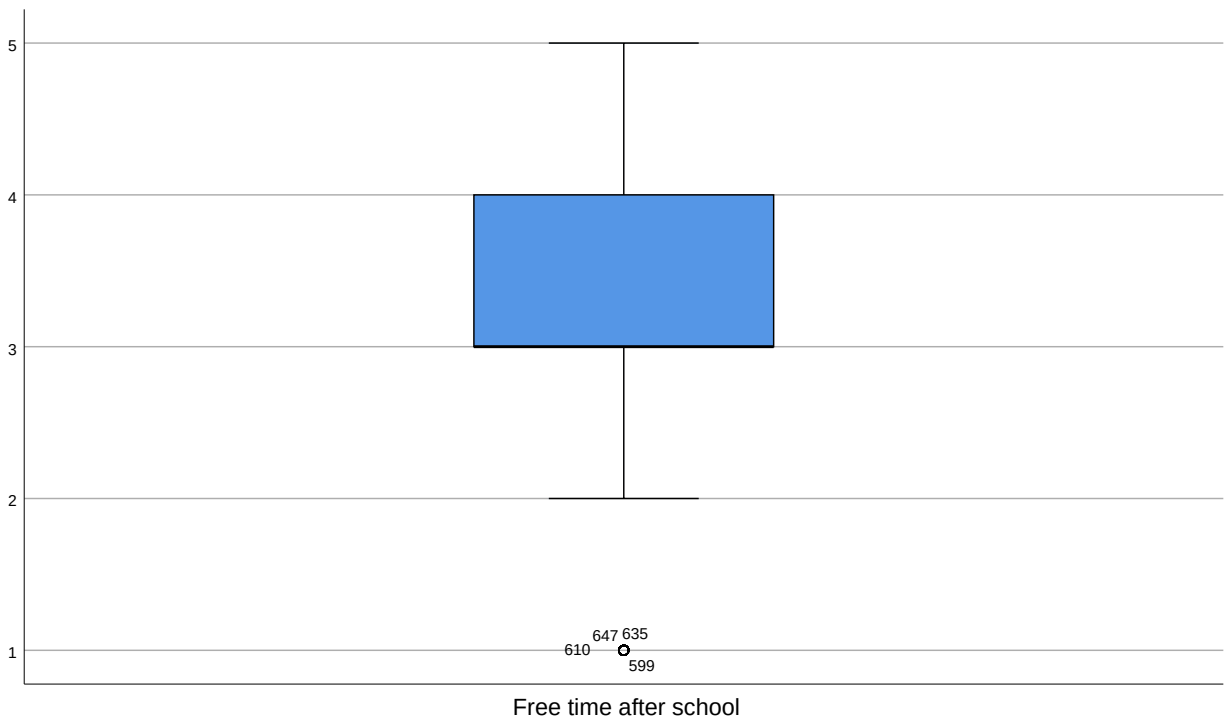
Free time after school



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

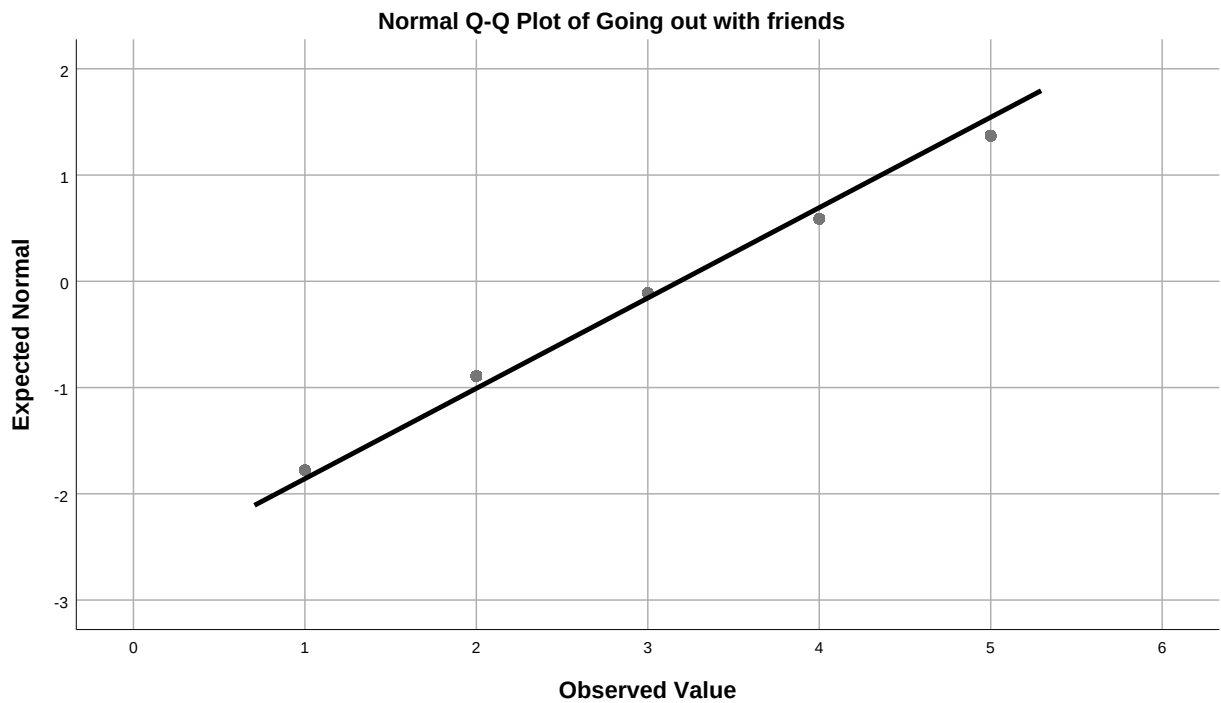
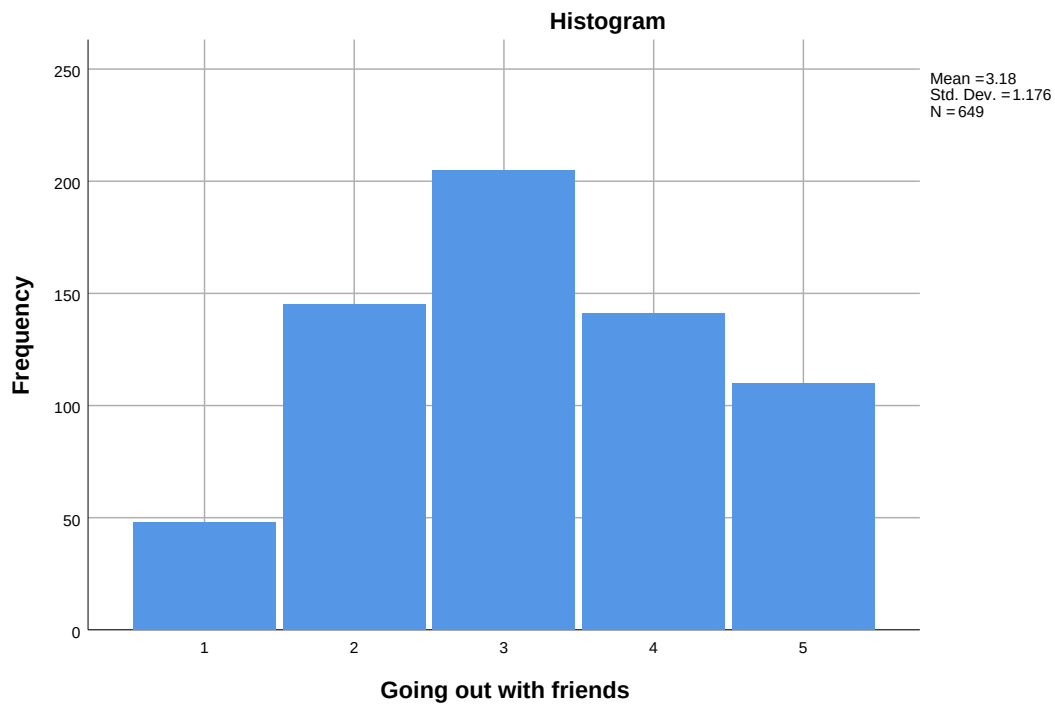


Pearson Correlation: Assumption Context
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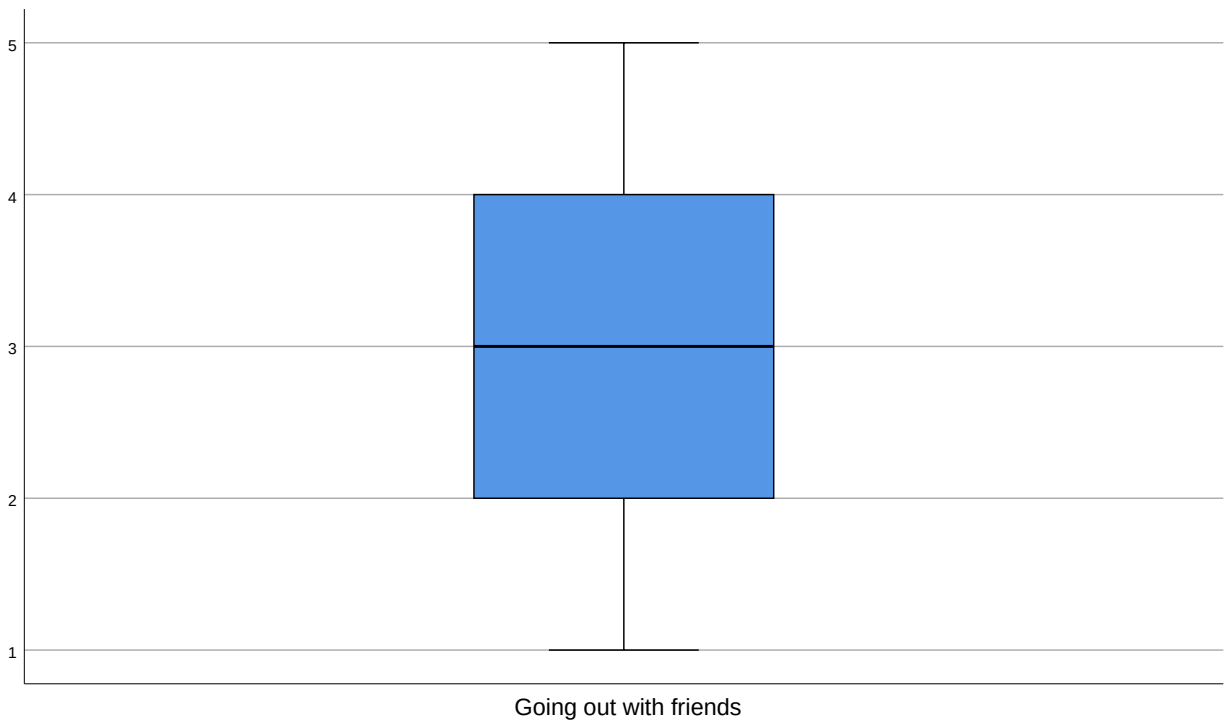
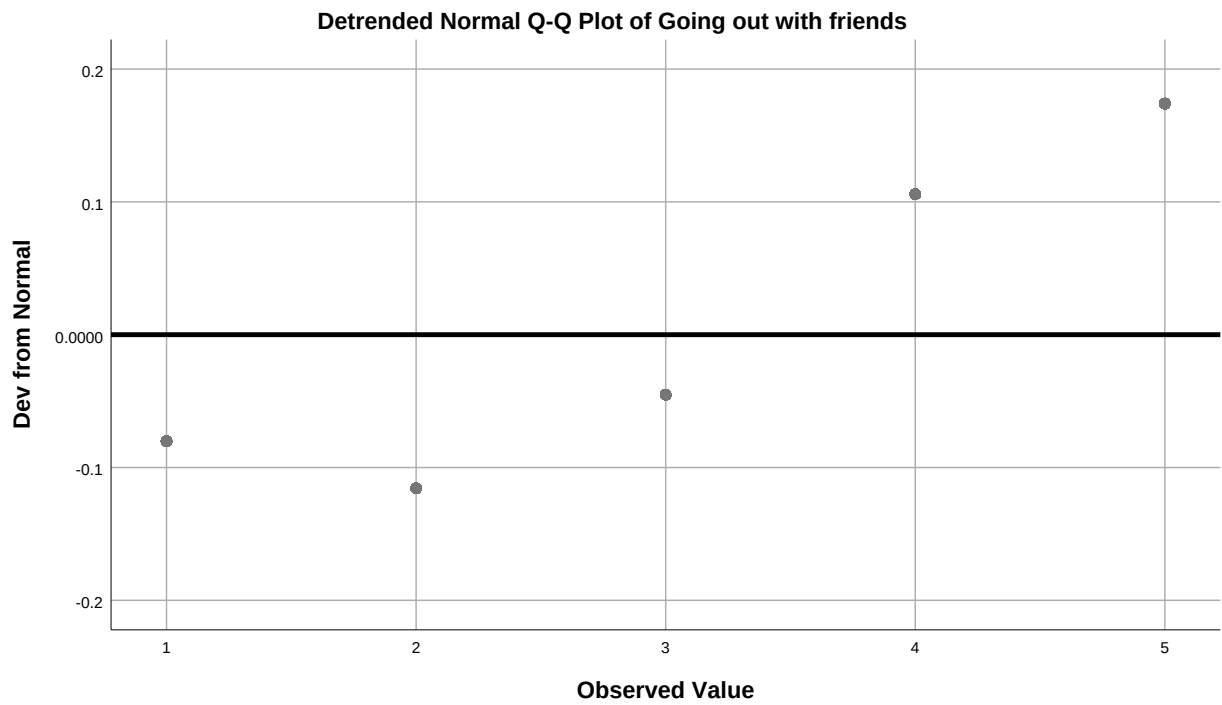


Going out with friends

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

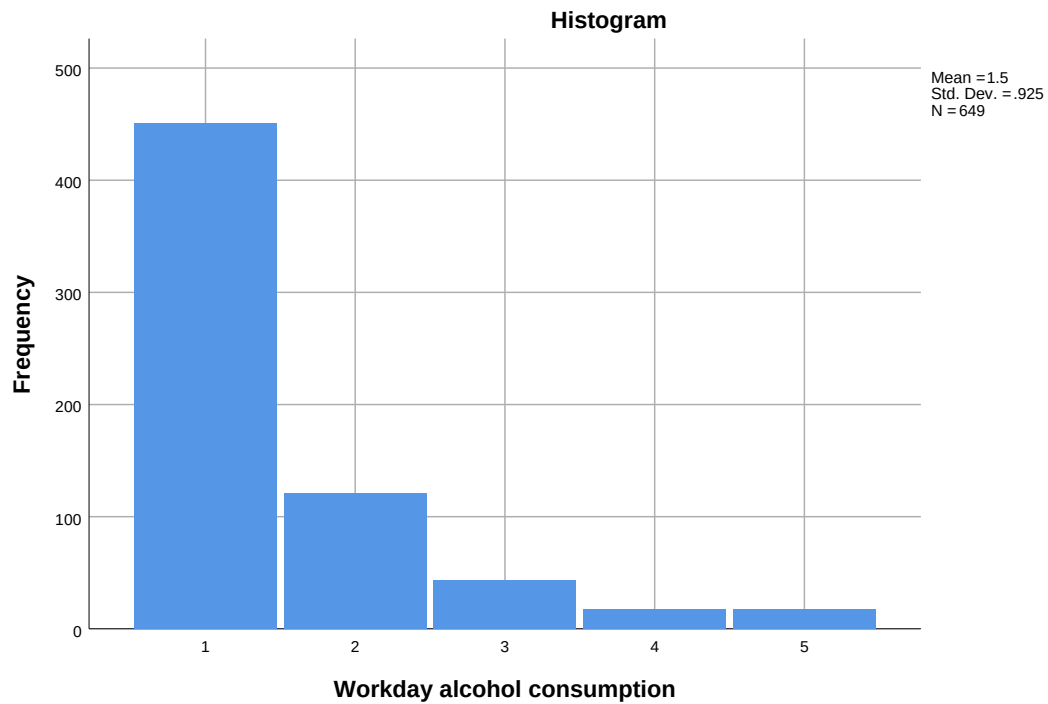


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

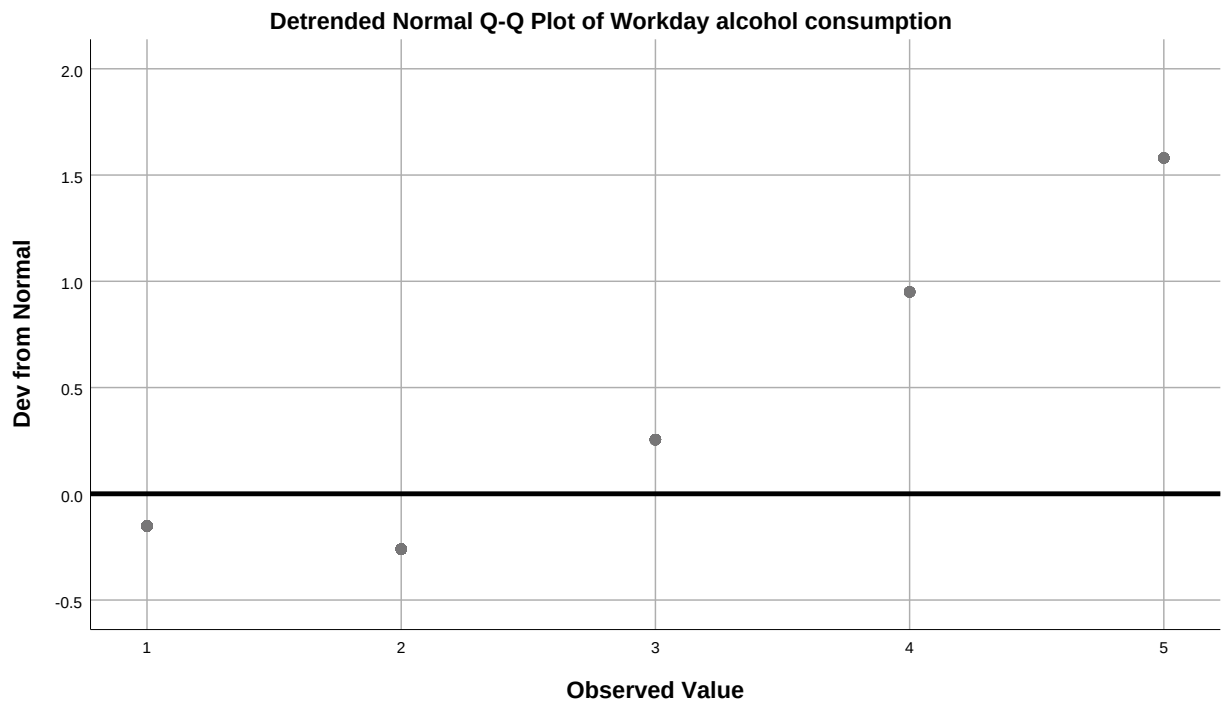
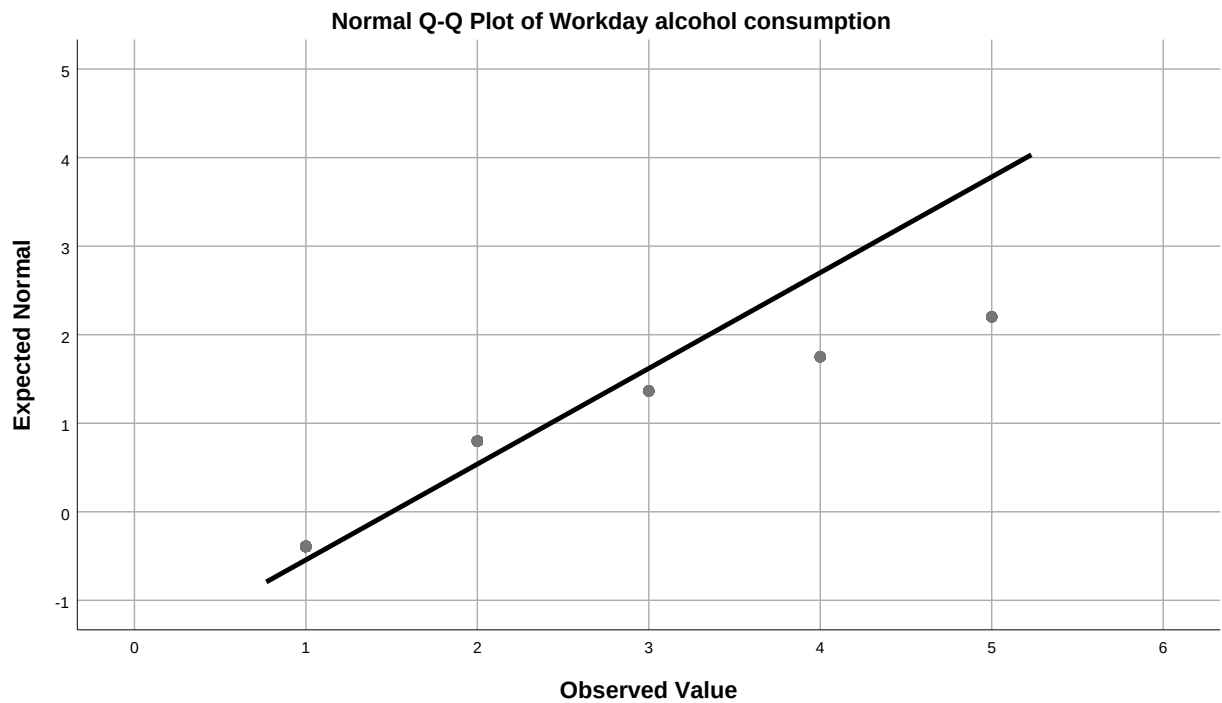


Pearson Correlation: Assumption Context
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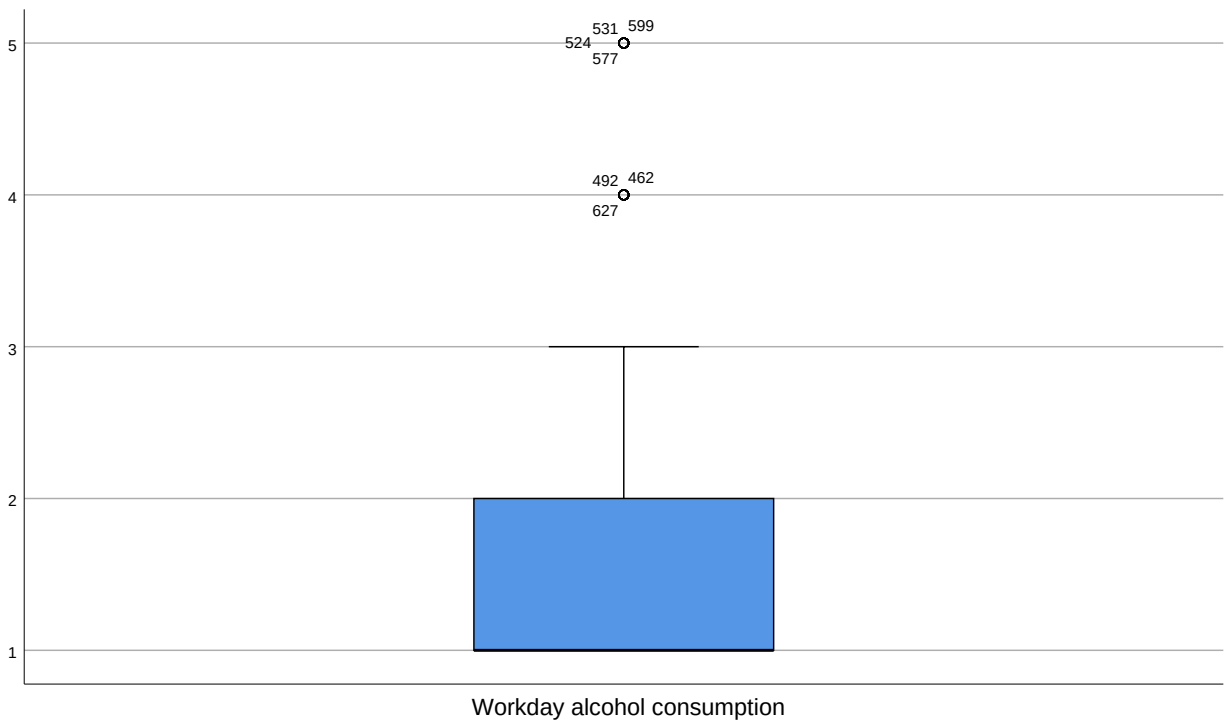
Workday alcohol consumption



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

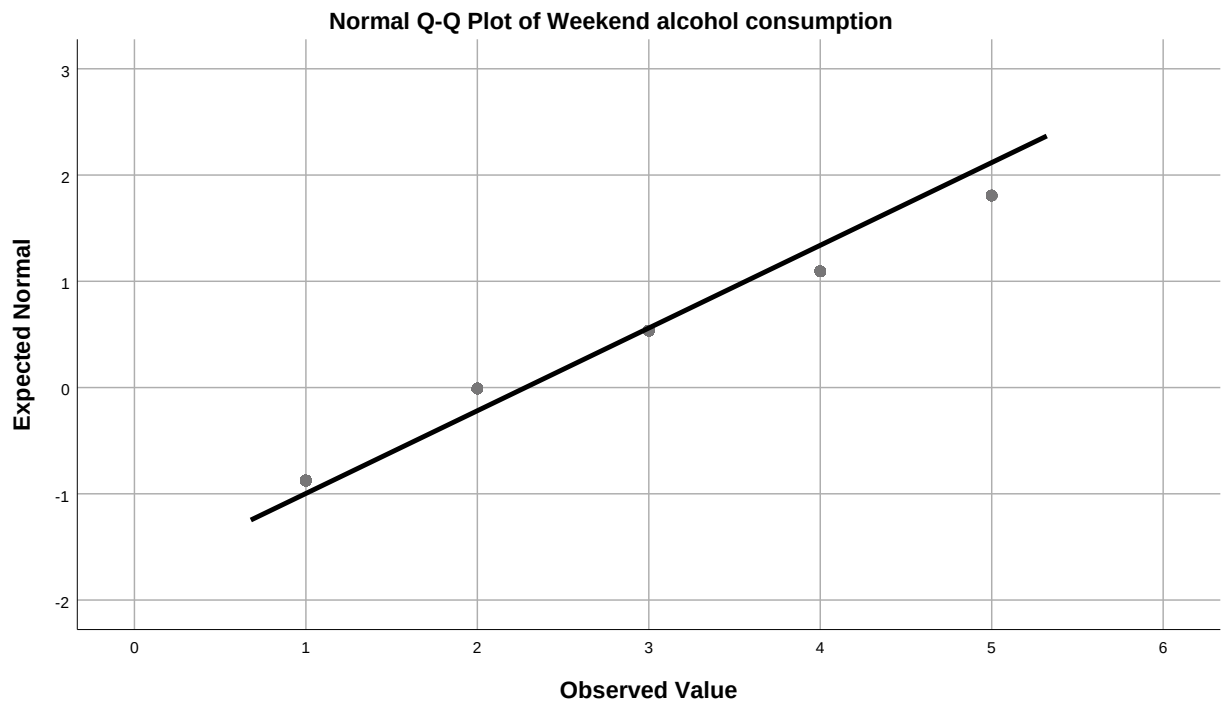
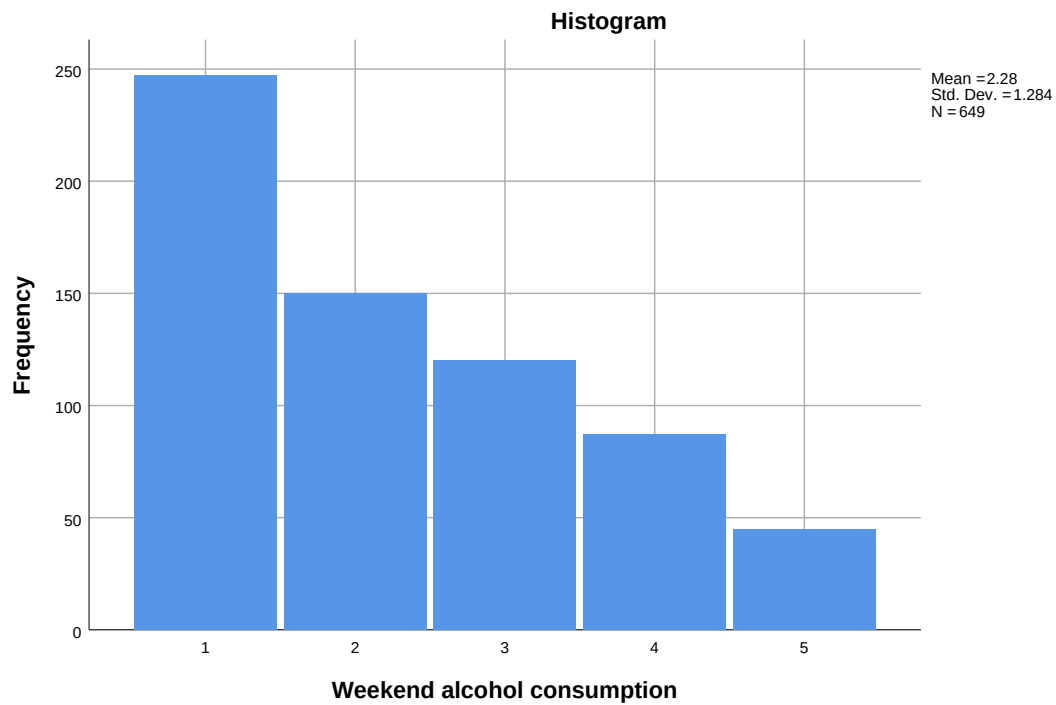


Pearson Correlation: Assumption Context
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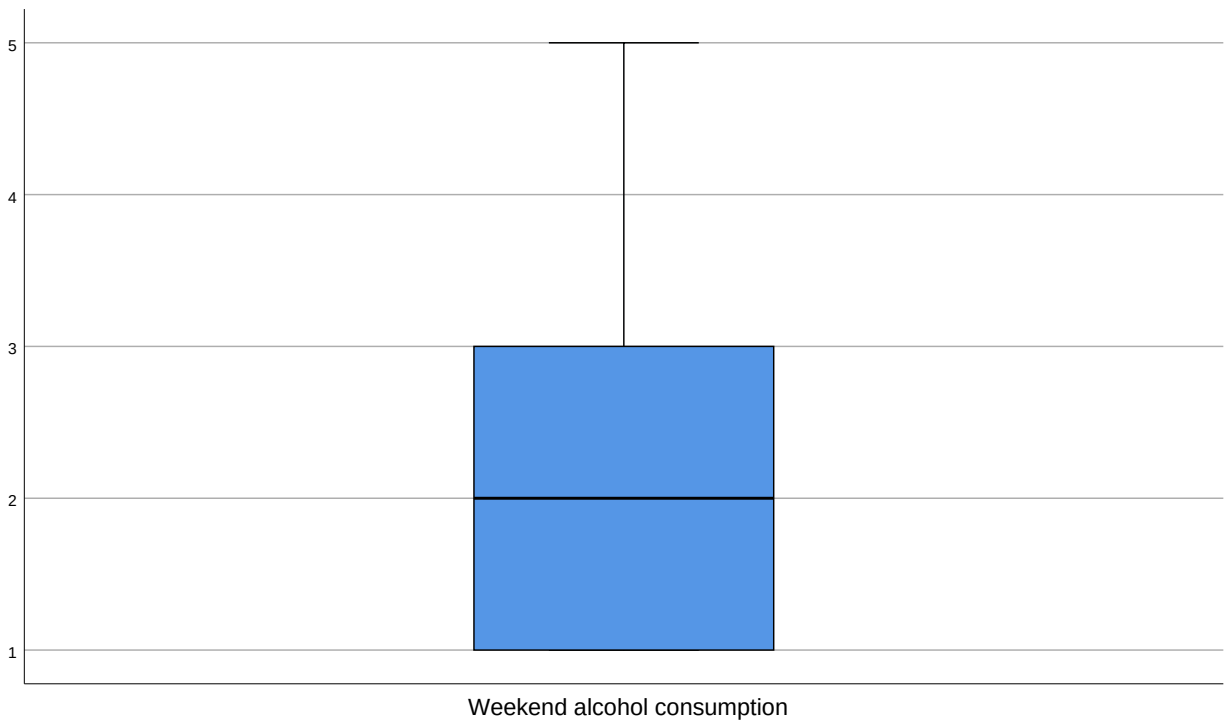
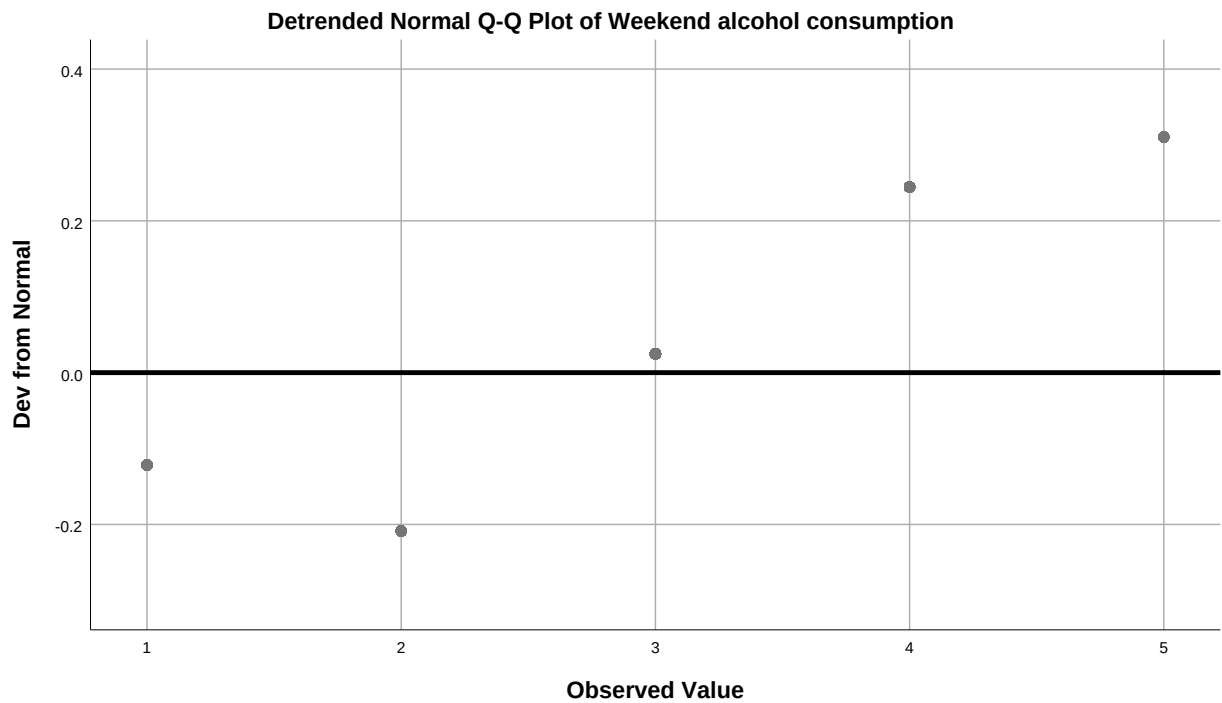


Weekend alcohol consumption

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

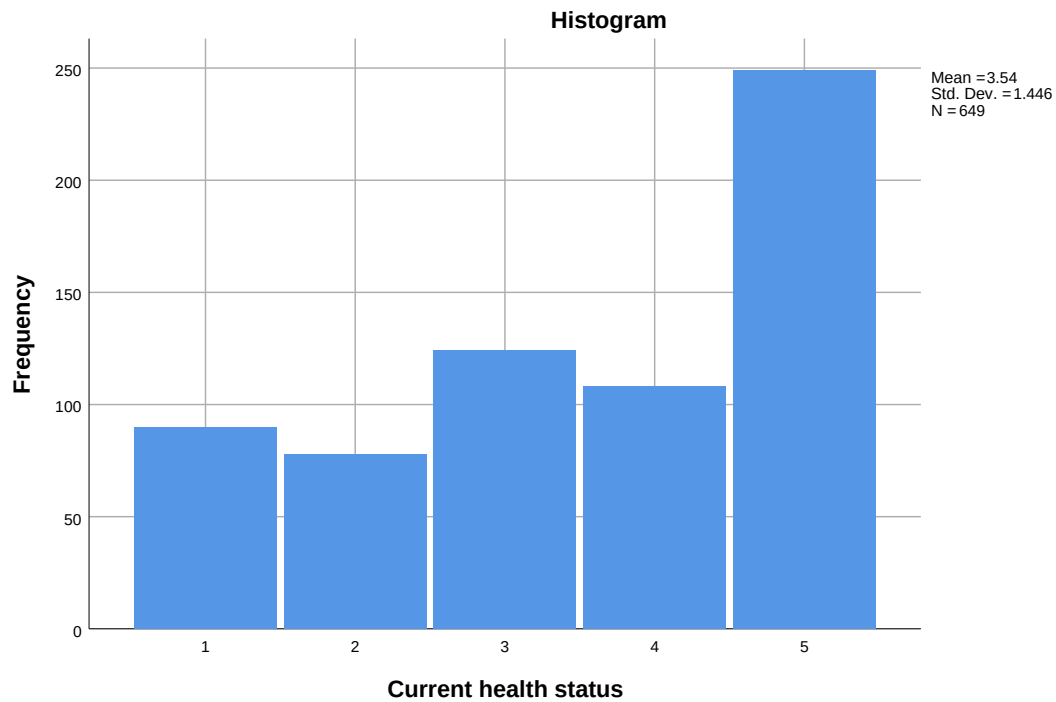


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

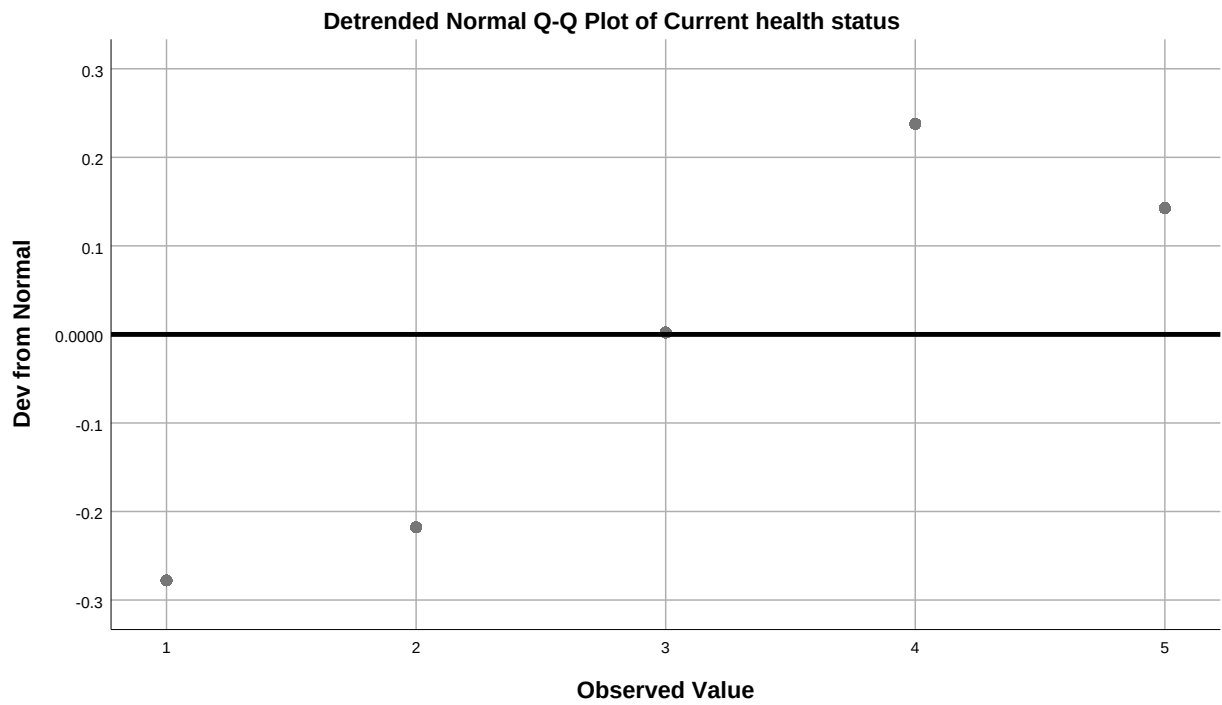
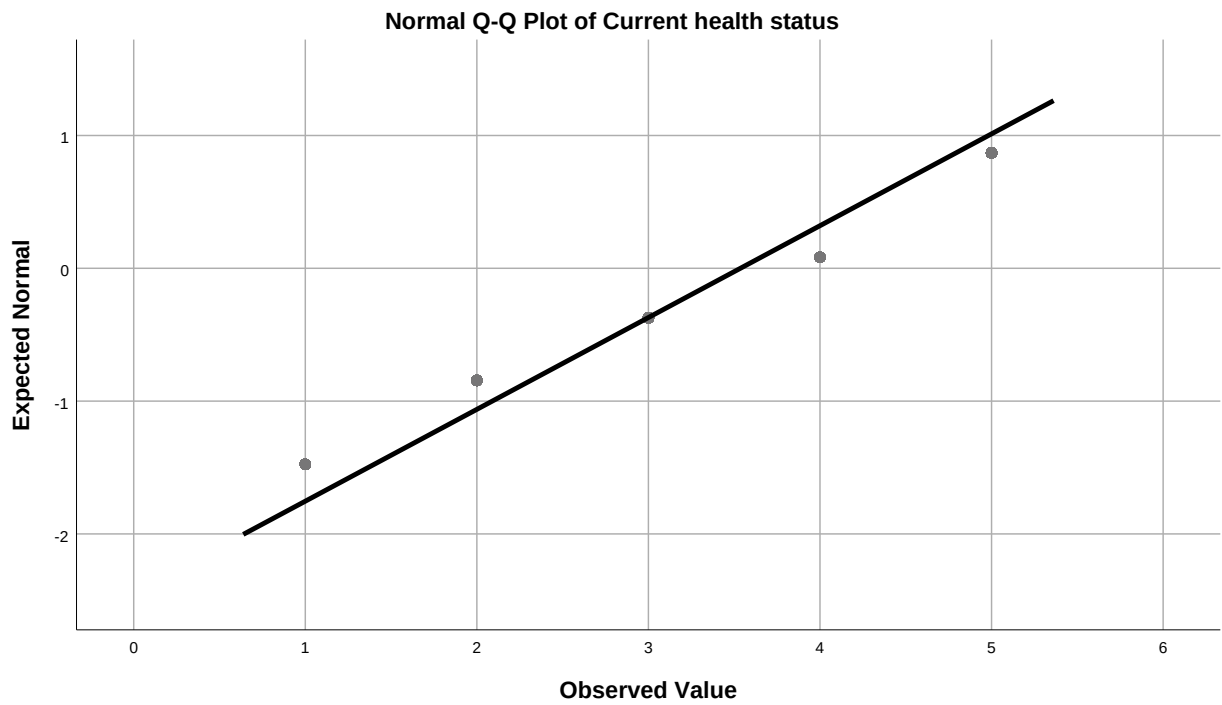


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

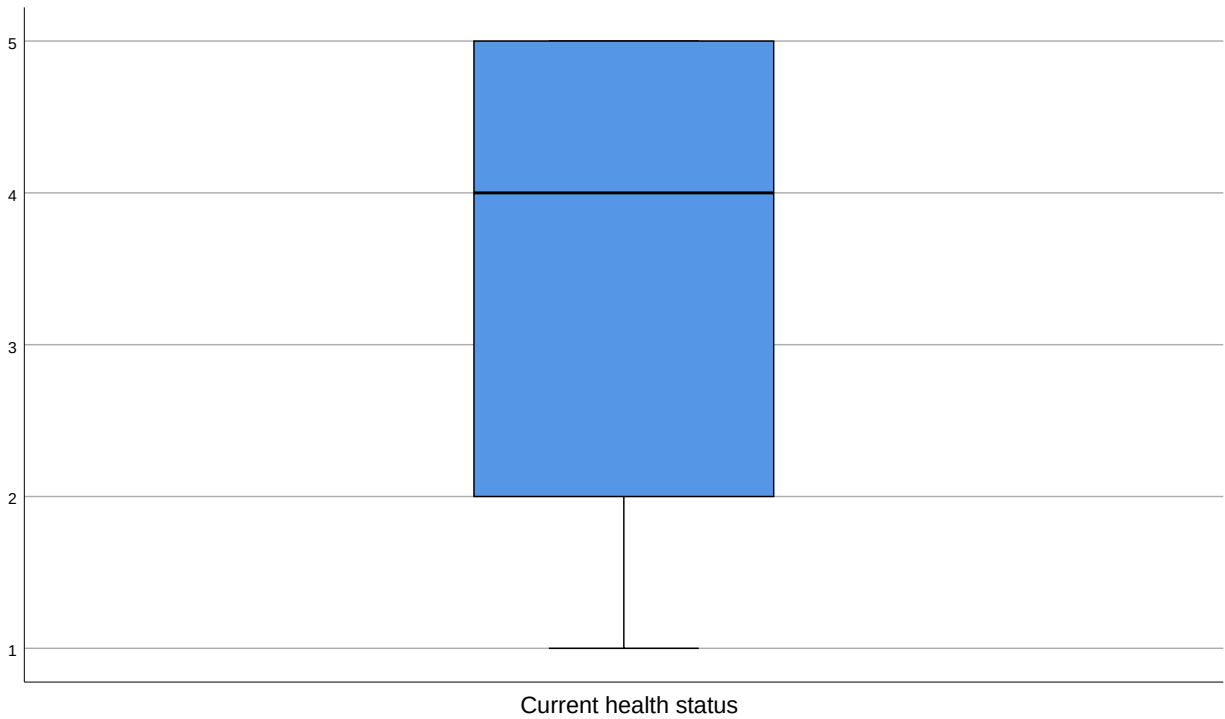
Current health status



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

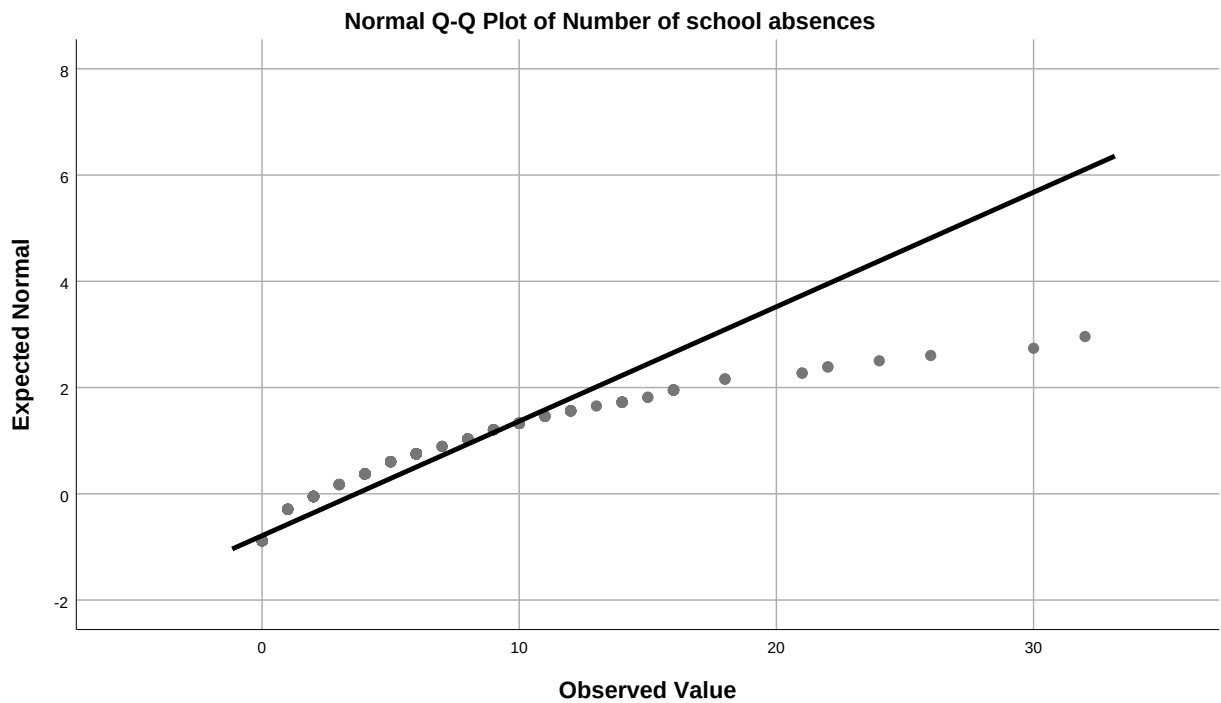
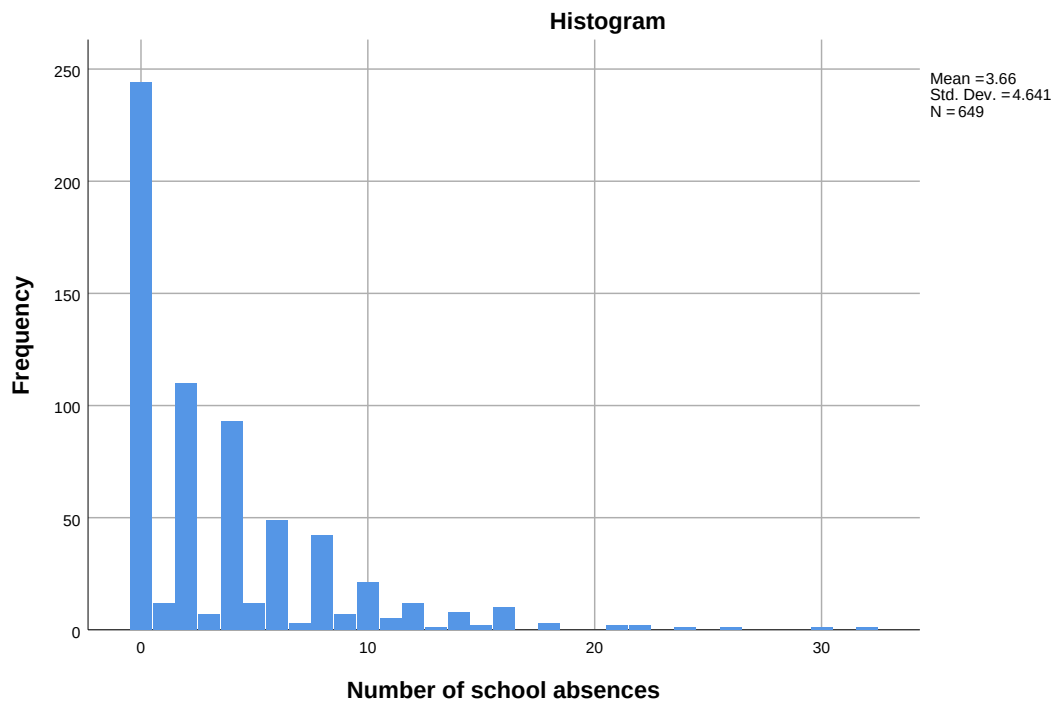


Pearson Correlation : Assumption Context
Check distributions and possible outliers before interpretin

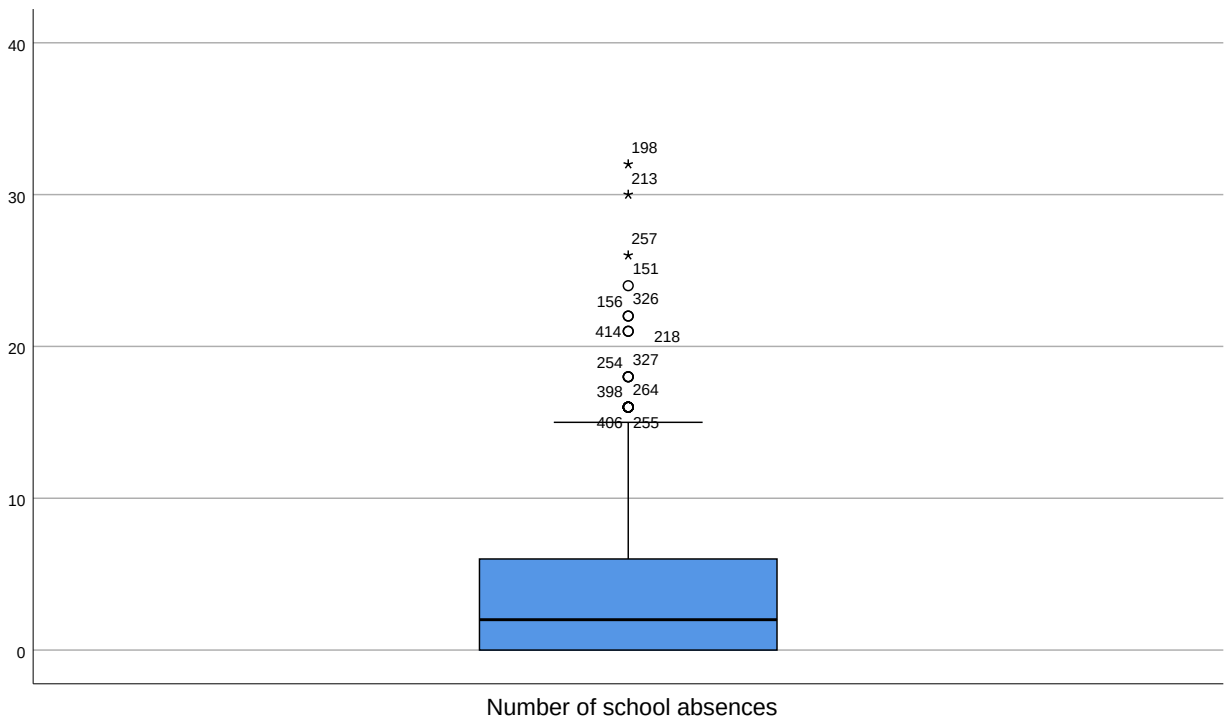
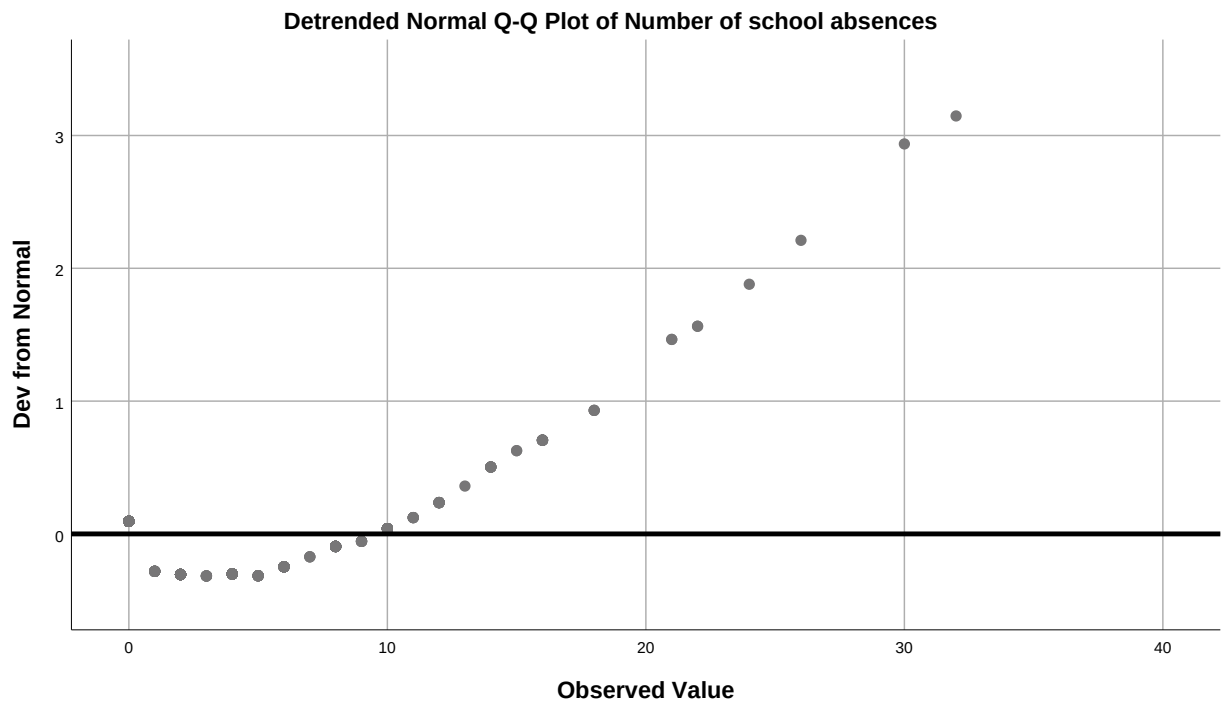


Number of school absences

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

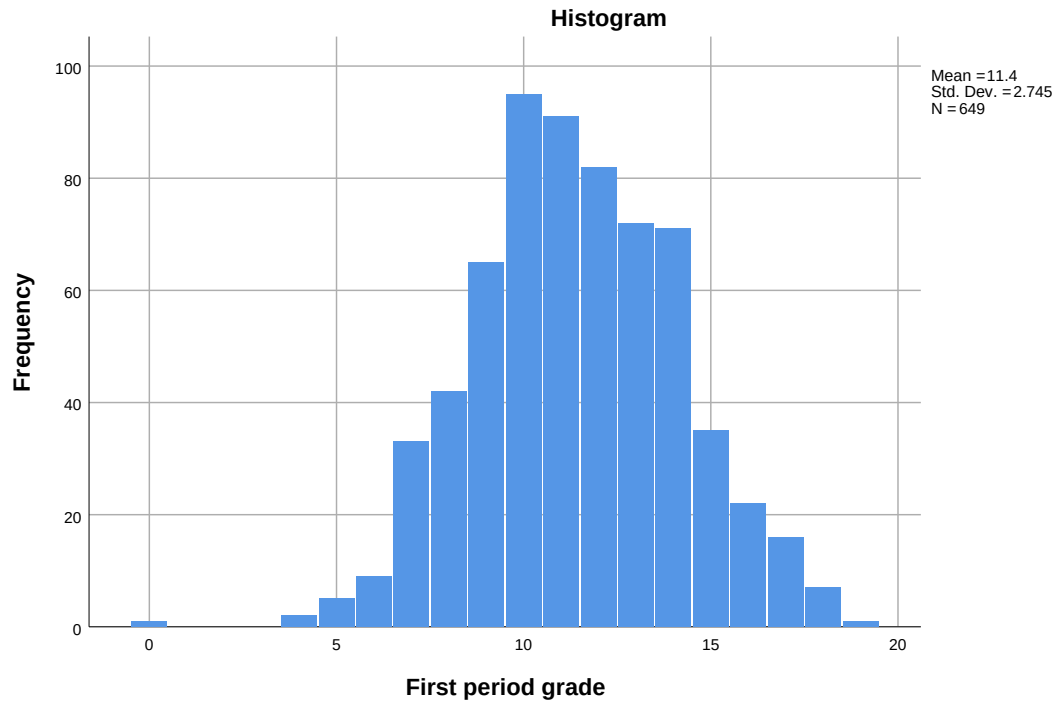


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

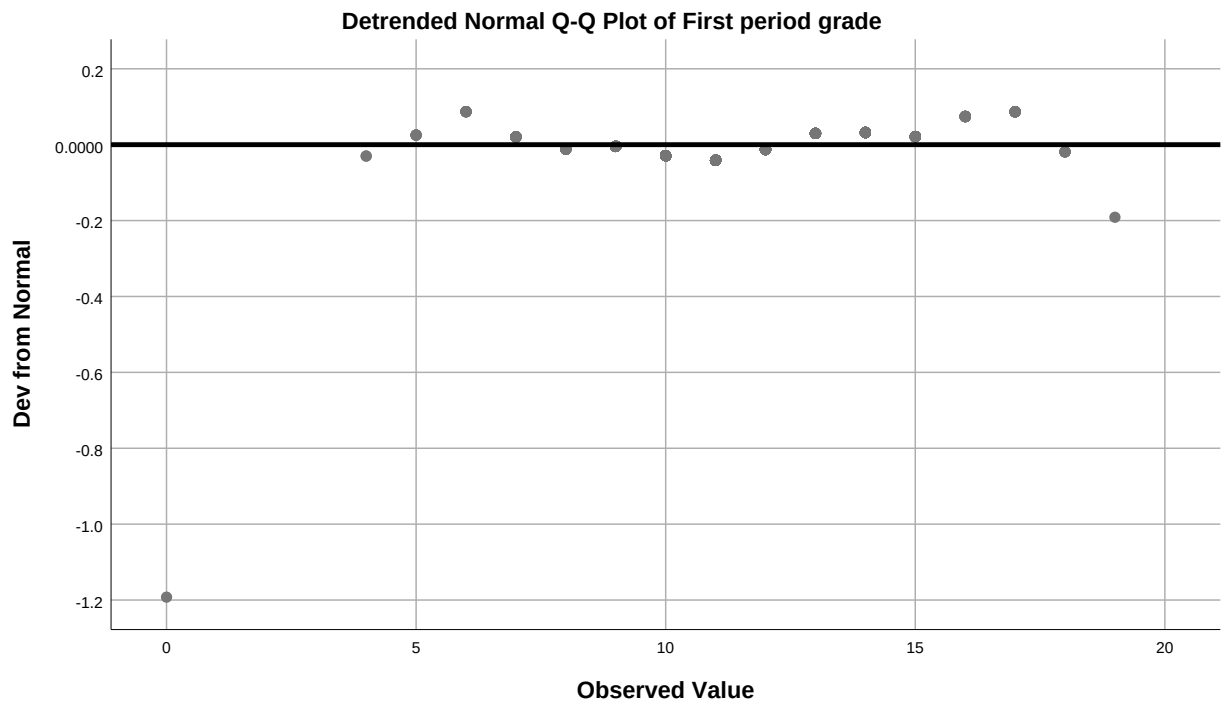
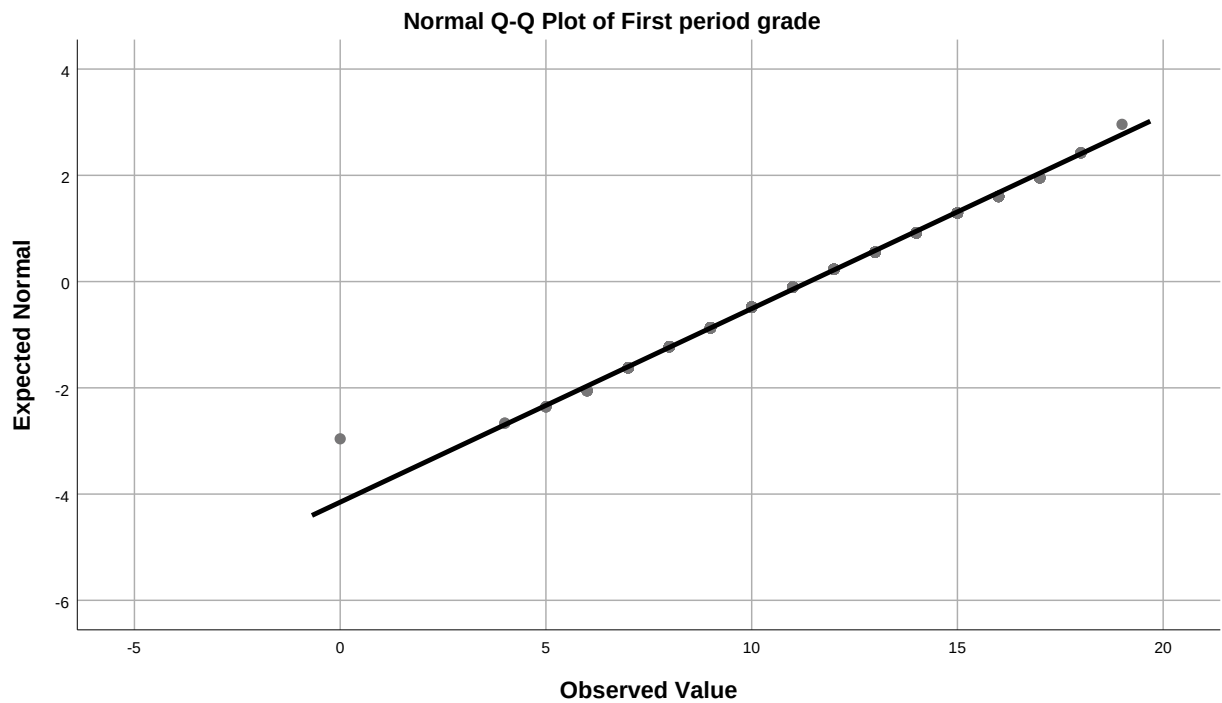


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

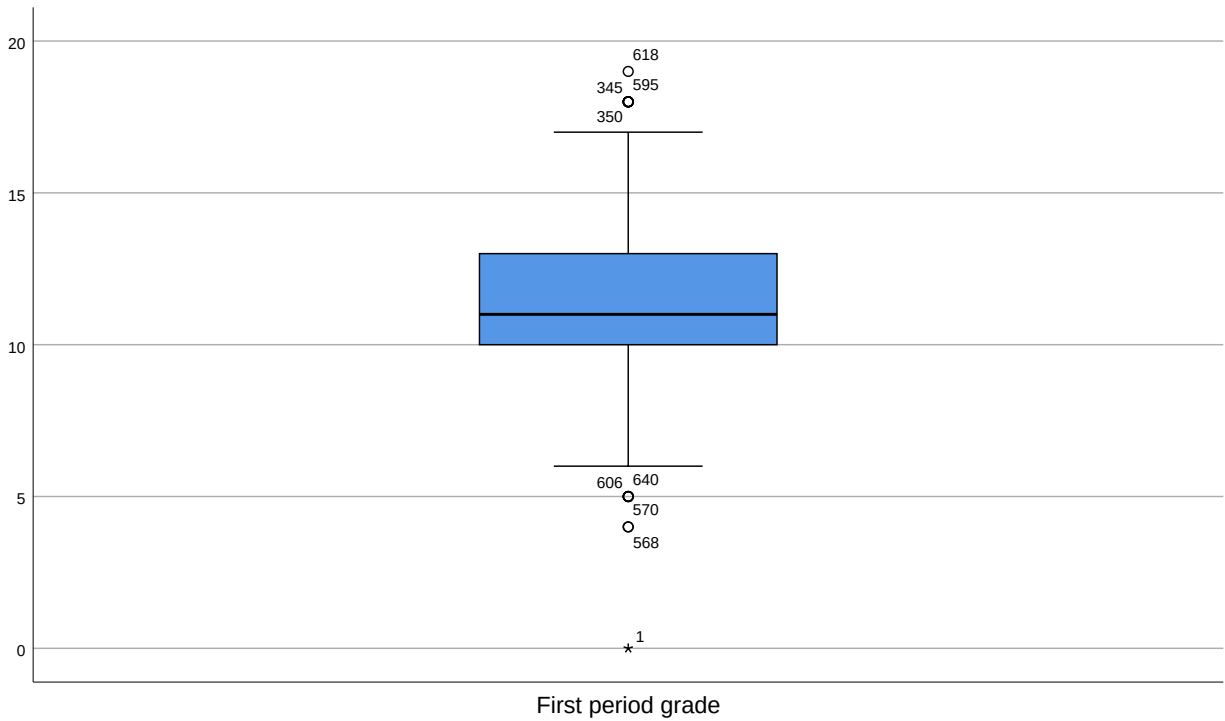
First period grade



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

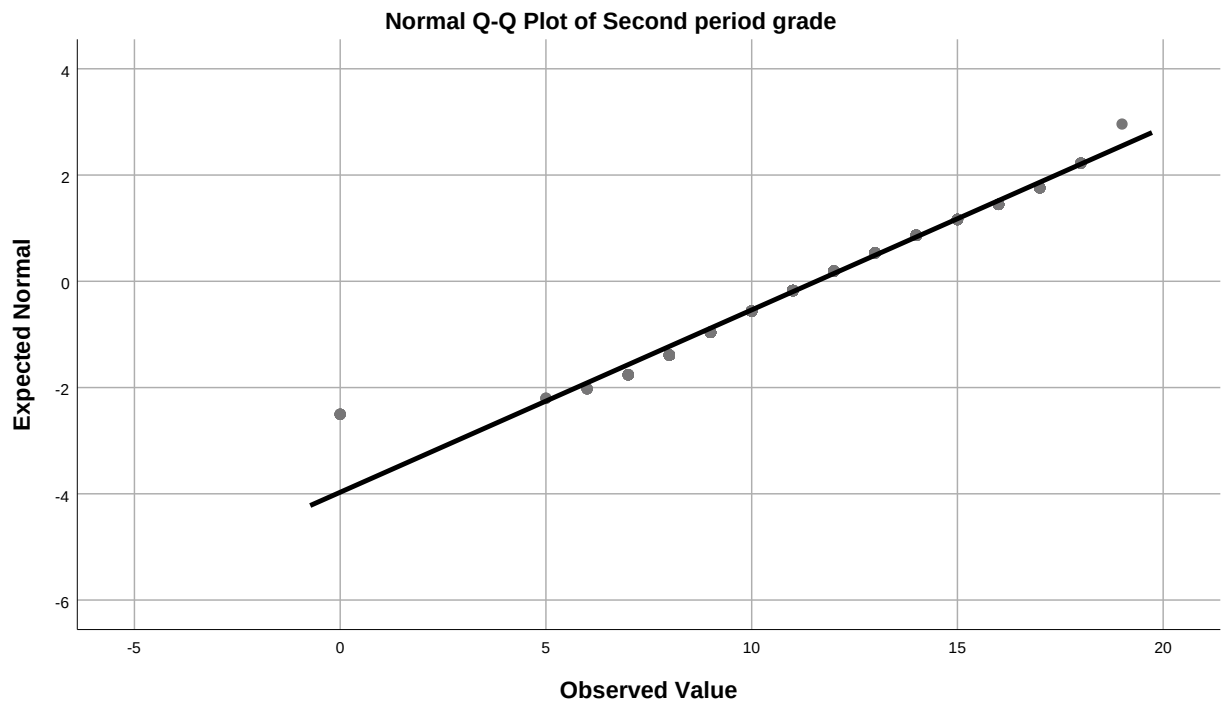
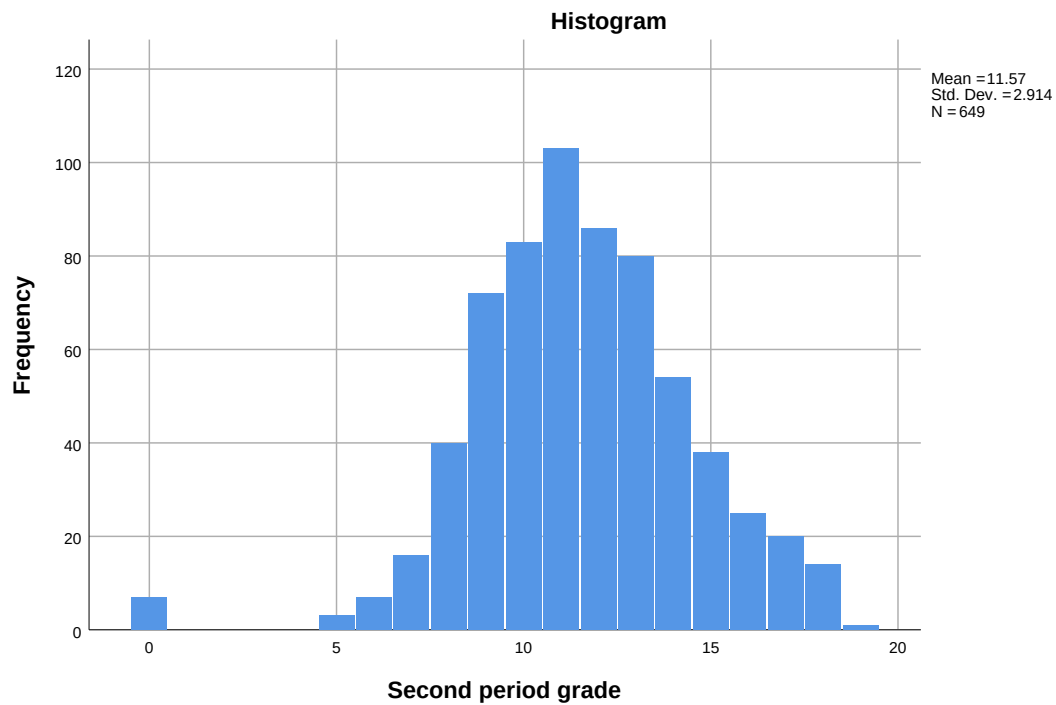


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

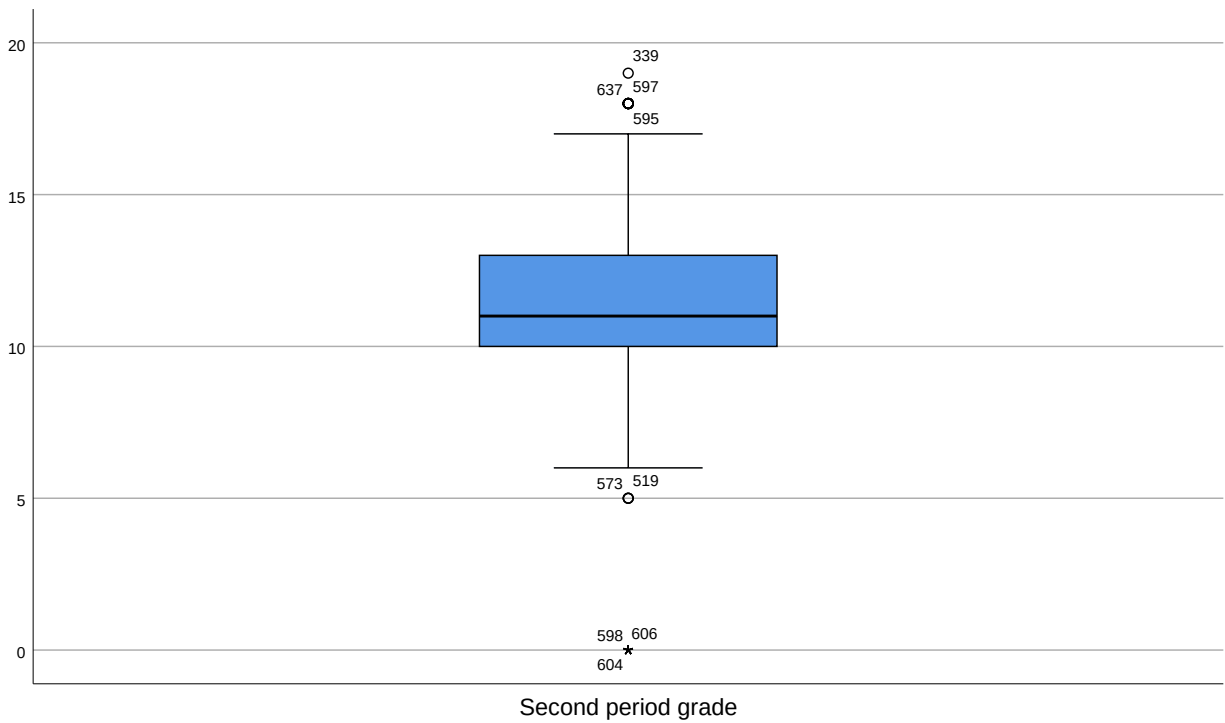
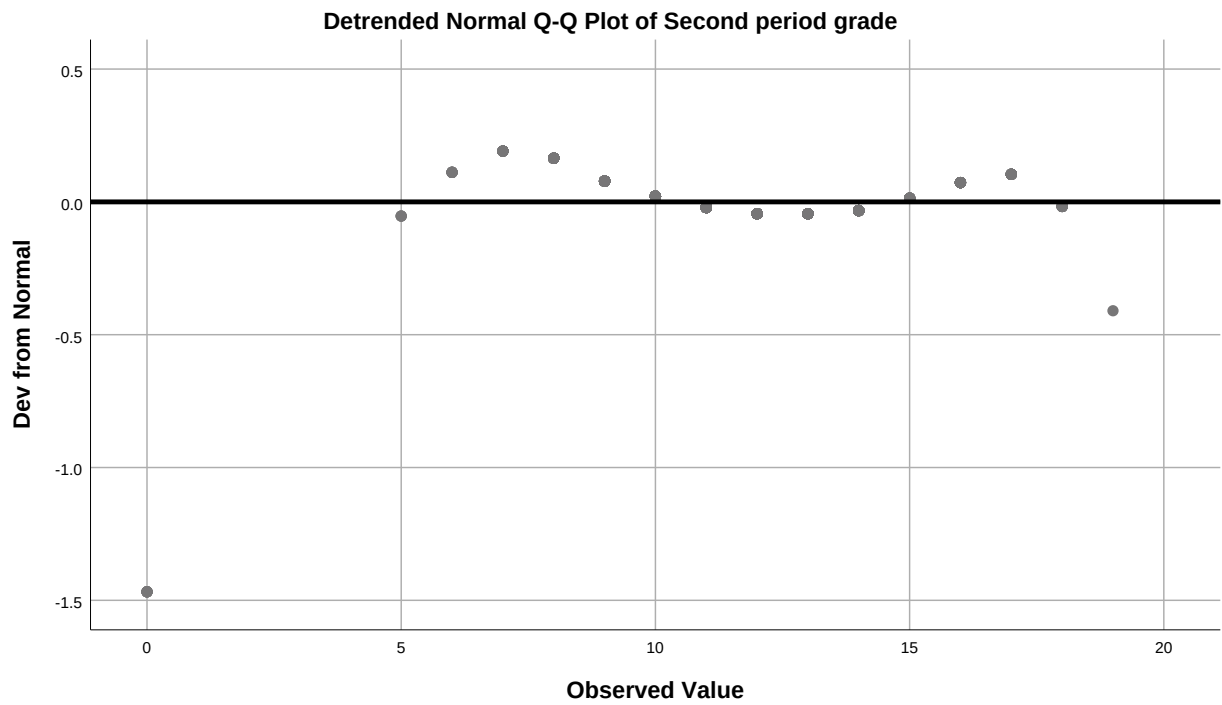


Second period grade

Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

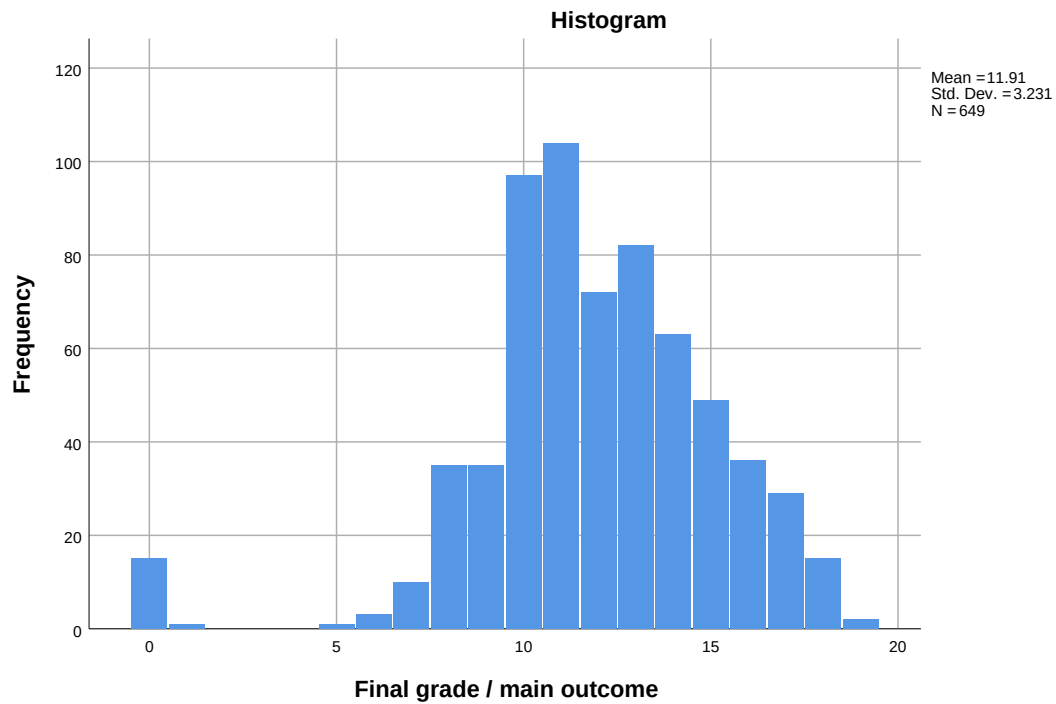


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

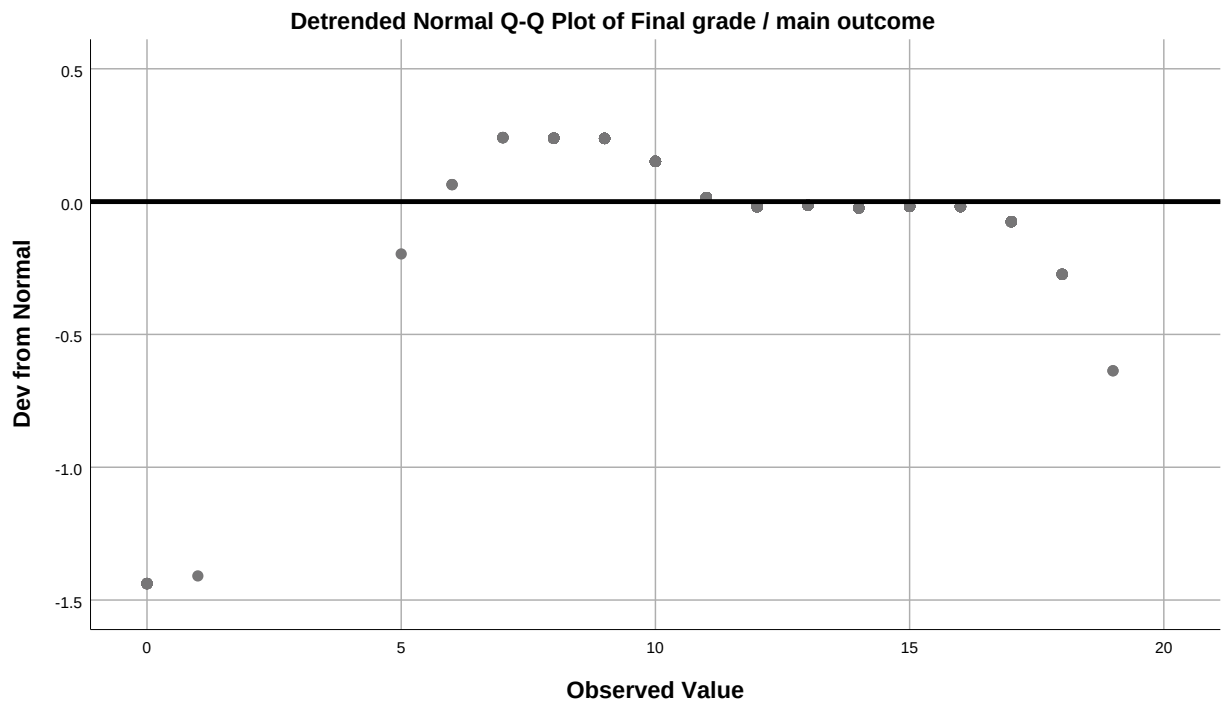
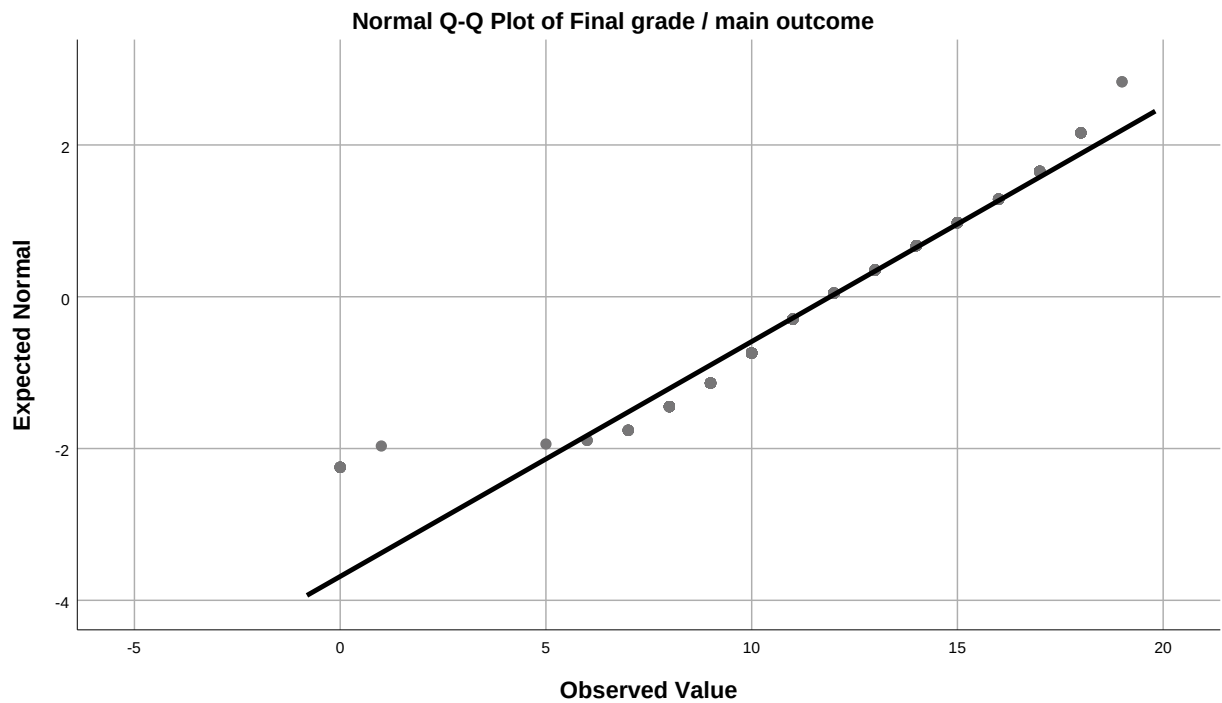


Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin

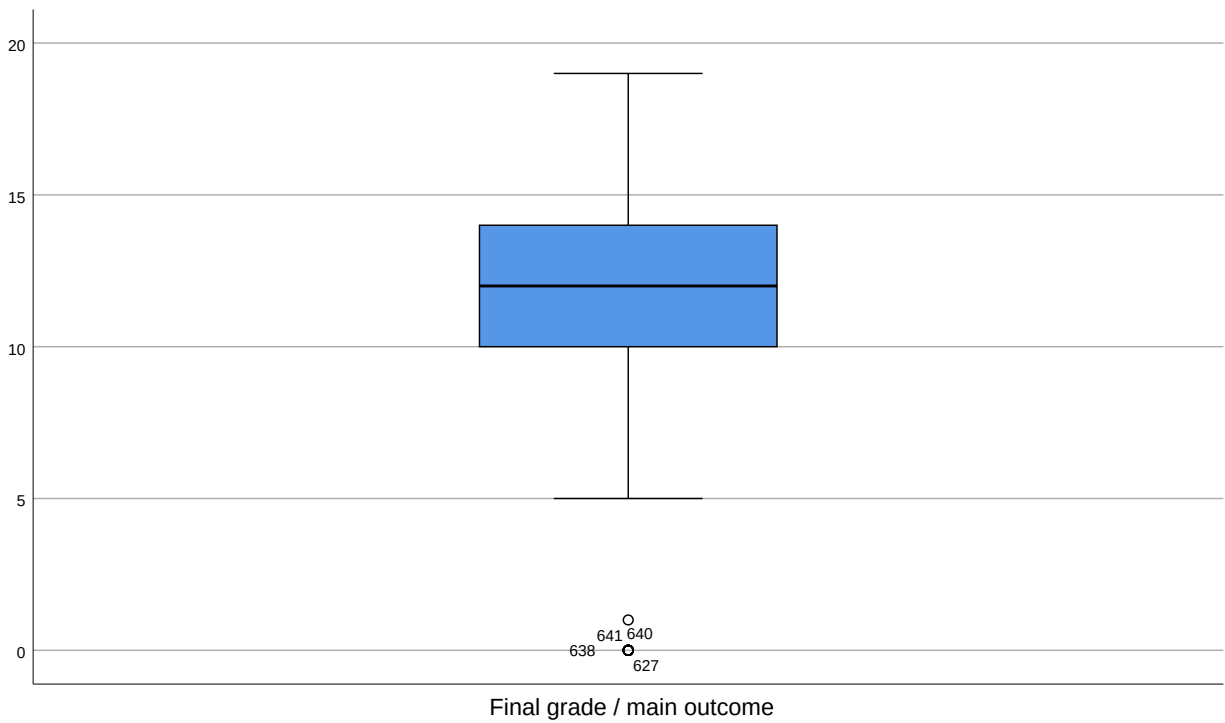
Final grade / main outcome



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin



Pearson Correlation: Assumption Context
Check distributions and possible outliers before interpretin



Pearson Correlation Matrix

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Correlations		
		Student age	Mother education	Father education
Student age	Pearson Correlation	1	-.108	-.121
	Sig. (2-tailed)		.006	.002
	N	649	649	649
Mother education	Pearson Correlation	-.108	1	.647
	Sig. (2-tailed)	.006		.000
	N	649	649	649
Father education	Pearson Correlation	-.121	.647	1
	Sig. (2-tailed)	.002	.000	
	N	649	649	649
Home to school travel time	Pearson Correlation	.034	-.265	-.208
	Sig. (2-tailed)	.380	.000	.000
	N	649	649	649
Weekly study time	Pearson Correlation	-.008	.097	.050
	Sig. (2-tailed)	.831	.013	.200
	N	649	649	649
Number of past class failures	Pearson Correlation	.320	-.172	-.166
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Quality of family relationships	Pearson Correlation	-.021	.024	.020
	Sig. (2-tailed)	.601	.535	.606
	N	649	649	649
Free time after school	Pearson Correlation	-.005	-.020	.007
	Sig. (2-tailed)	.901	.617	.862
	N	649	649	649
Going out with friends	Pearson Correlation	.113	.010	.028
	Sig. (2-tailed)	.004	.808	.481
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Home to school travel time	Weekly study time	Number of past class failures
Student age	Pearson Correlation	.034	-.008	.320
	Sig. (2-tailed)	.380	.831	.000
	N	649	649	649
Mother education	Pearson Correlation	-.265	.097	-.172
	Sig. (2-tailed)	.000	.013	.000
	N	649	649	649
Father education	Pearson Correlation	-.208	.050	-.166
	Sig. (2-tailed)	.000	.200	.000
	N	649	649	649
Home to school travel time	Pearson Correlation	1	-.063	.098
	Sig. (2-tailed)		.108	.013
	N	649	649	649
Weekly study time	Pearson Correlation	-.063	1	-.147
	Sig. (2-tailed)	.108		.000
	N	649	649	649
Number of past class failures	Pearson Correlation	.098	-.147	1
	Sig. (2-tailed)	.013	.000	
	N	649	649	649
Quality of family relationships	Pearson Correlation	-.010	-.004	-.063
	Sig. (2-tailed)	.809	.916	.111
	N	649	649	649
Free time after school	Pearson Correlation	.001	-.069	.109
	Sig. (2-tailed)	.981	.080	.005
	N	649	649	649
Going out with friends	Pearson Correlation	.057	-.075	.045
	Sig. (2-tailed)	.144	.055	.251
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Quality of family relationships	Free time after school	Going out with friends
Student age	Pearson Correlation	-.021	-.005	.113
	Sig. (2-tailed)	.601	.901	.004
	N	649	649	649
Mother education	Pearson Correlation	.024	-.020	.010
	Sig. (2-tailed)	.535	.617	.808
	N	649	649	649
Father education	Pearson Correlation	.020	.007	.028
	Sig. (2-tailed)	.606	.862	.481
	N	649	649	649
Home to school travel time	Pearson Correlation	-.010	.001	.057
	Sig. (2-tailed)	.809	.981	.144
	N	649	649	649
Weekly study time	Pearson Correlation	-.004	-.069	-.075
	Sig. (2-tailed)	.916	.080	.055
	N	649	649	649
Number of past class failures	Pearson Correlation	-.063	.109	.045
	Sig. (2-tailed)	.111	.005	.251
	N	649	649	649
Quality of family relationships	Pearson Correlation	1	.129	.090
	Sig. (2-tailed)		.001	.022
	N	649	649	649
Free time after school	Pearson Correlation	.129	1	.346
	Sig. (2-tailed)	.001		.000
	N	649	649	649
Going out with friends	Pearson Correlation	.090	.346	1
	Sig. (2-tailed)	.022	.000	
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Workday alcohol consumption	Weekend alcohol consumption	Current health status
Student age	Pearson Correlation	.135	.086	-.009
	Sig. (2-tailed)	.001	.028	.824
	N	649	649	649
Mother education	Pearson Correlation	-.007	-.020	.005
	Sig. (2-tailed)	.858	.615	.907
	N	649	649	649
Father education	Pearson Correlation	.000	.038	.045
	Sig. (2-tailed)	.999	.328	.253
	N	649	649	649
Home to school travel time	Pearson Correlation	.093	.057	-.048
	Sig. (2-tailed)	.018	.147	.220
	N	649	649	649
Weekly study time	Pearson Correlation	-.138	-.215	-.056
	Sig. (2-tailed)	.000	.000	.151
	N	649	649	649
Number of past class failures	Pearson Correlation	.106	.082	.036
	Sig. (2-tailed)	.007	.036	.365
	N	649	649	649
Quality of family relationships	Pearson Correlation	-.076	-.094	.110
	Sig. (2-tailed)	.054	.017	.005
	N	649	649	649
Free time after school	Pearson Correlation	.110	.120	.085
	Sig. (2-tailed)	.005	.002	.031
	N	649	649	649
Going out with friends	Pearson Correlation	.245	.389	-.016
	Sig. (2-tailed)	.000	.000	.689
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Number of school absences	First period grade	Second period grade
Student age	Pearson Correlation	.150	-.174	-.107
	Sig. (2-tailed)	.000	.000	.006
	N	649	649	649
Mother education	Pearson Correlation	-.009	.260	.264
	Sig. (2-tailed)	.827	.000	.000
	N	649	649	649
Father education	Pearson Correlation	.030	.218	.225
	Sig. (2-tailed)	.448	.000	.000
	N	649	649	649
Home to school travel time	Pearson Correlation	-.008	-.154	-.154
	Sig. (2-tailed)	.836	.000	.000
	N	649	649	649
Weekly study time	Pearson Correlation	-.118	.261	.240
	Sig. (2-tailed)	.003	.000	.000
	N	649	649	649
Number of past class failures	Pearson Correlation	.123	-.384	-.386
	Sig. (2-tailed)	.002	.000	.000
	N	649	649	649
Quality of family relationships	Pearson Correlation	-.090	.049	.090
	Sig. (2-tailed)	.023	.214	.022
	N	649	649	649
Free time after school	Pearson Correlation	-.019	-.094	-.107
	Sig. (2-tailed)	.634	.016	.007
	N	649	649	649
Going out with friends	Pearson Correlation	.085	-.074	-.079
	Sig. (2-tailed)	.030	.059	.043
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Final grade / main outcome
Student age	Pearson Correlation	-.107
	Sig. (2-tailed)	.007
	N	649
Mother education	Pearson Correlation	.240
	Sig. (2-tailed)	.000
	N	649
Father education	Pearson Correlation	.212
	Sig. (2-tailed)	.000
	N	649
Home to school travel time	Pearson Correlation	-.127
	Sig. (2-tailed)	.001
	N	649
Weekly study time	Pearson Correlation	.250
	Sig. (2-tailed)	.000
	N	649
Number of past class failures	Pearson Correlation	-.393
	Sig. (2-tailed)	.000
	N	649
Quality of family relationships	Pearson Correlation	.063
	Sig. (2-tailed)	.107
	N	649
Free time after school	Pearson Correlation	-.123
	Sig. (2-tailed)	.002
	N	649
Going out with friends	Pearson Correlation	-.088
	Sig. (2-tailed)	.026
	N	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Student age	Mother education	Father education
Workday alcohol consumption	Pearson Correlation	.135	-.007	.000
	Sig. (2-tailed)	.001	.858	.999
	N	649	649	649
Weekend alcohol consumption	Pearson Correlation	.086	-.020	.038
	Sig. (2-tailed)	.028	.615	.328
	N	649	649	649
Current health status	Pearson Correlation	-.009	.005	.045
	Sig. (2-tailed)	.824	.907	.253
	N	649	649	649
Number of school absences	Pearson Correlation	.150	-.009	.030
	Sig. (2-tailed)	.000	.827	.448
	N	649	649	649
First period grade	Pearson Correlation	-.174	.260	.218
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	-.107	.264	.225
	Sig. (2-tailed)	.006	.000	.000
	N	649	649	649
Final grade / main outcome	Pearson Correlation	-.107	.240	.212
	Sig. (2-tailed)	.007	.000	.000
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Home to school travel time	Weekly study time	Number of past class failures
Workday alcohol consumption	Pearson Correlation	.093	-.138	.106
	Sig. (2-tailed)	.018	.000	.007
	N	649	649	649
Weekend alcohol consumption	Pearson Correlation	.057	-.215	.082
	Sig. (2-tailed)	.147	.000	.036
	N	649	649	649
Current health status	Pearson Correlation	-.048	-.056	.036
	Sig. (2-tailed)	.220	.151	.365
	N	649	649	649
Number of school absences	Pearson Correlation	-.008	-.118	.123
	Sig. (2-tailed)	.836	.003	.002
	N	649	649	649
First period grade	Pearson Correlation	-.154	.261	-.384
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	-.154	.240	-.386
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Final grade / main outcome	Pearson Correlation	-.127	.250	-.393
	Sig. (2-tailed)	.001	.000	.000
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Quality of family relationships	Free time after school	Going out with friends
Workday alcohol consumption	Pearson Correlation	-.076	.110	.245
	Sig. (2-tailed)	.054	.005	.000
	N	649	649	649
Weekend alcohol consumption	Pearson Correlation	-.094	.120	.389
	Sig. (2-tailed)	.017	.002	.000
	N	649	649	649
Current health status	Pearson Correlation	.110	.085	-.016
	Sig. (2-tailed)	.005	.031	.689
	N	649	649	649
Number of school absences	Pearson Correlation	-.090	-.019	.085
	Sig. (2-tailed)	.023	.634	.030
	N	649	649	649
First period grade	Pearson Correlation	.049	-.094	-.074
	Sig. (2-tailed)	.214	.016	.059
	N	649	649	649
Second period grade	Pearson Correlation	.090	-.107	-.079
	Sig. (2-tailed)	.022	.007	.043
	N	649	649	649
Final grade / main outcome	Pearson Correlation	.063	-.123	-.088
	Sig. (2-tailed)	.107	.002	.026
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Workday alcohol consumption	Weekend alcohol consumption	Current health status
Workday alcohol consumption	Pearson Correlation	1	.617	.059
	Sig. (2-tailed)		.000	.133
	N	649	649	649
Weekend alcohol consumption	Pearson Correlation	.617	1	.115
	Sig. (2-tailed)	.000		.003
	N	649	649	649
Current health status	Pearson Correlation	.059	.115	1
	Sig. (2-tailed)	.133	.003	
	N	649	649	649
Number of school absences	Pearson Correlation	.173	.156	-.030
	Sig. (2-tailed)	.000	.000	.442
	N	649	649	649
First period grade	Pearson Correlation	-.195	-.156	-.052
	Sig. (2-tailed)	.000	.000	.189
	N	649	649	649
Second period grade	Pearson Correlation	-.189	-.165	-.082
	Sig. (2-tailed)	.000	.000	.036
	N	649	649	649
Final grade / main outcome	Pearson Correlation	-.205	-.177	-.099
	Sig. (2-tailed)	.000	.000	.012
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

Correlations

		Number of school absences	First period grade	Second period grade
Workday alcohol consumption	Pearson Correlation	.173	-.195	-.189
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Weekend alcohol consumption	Pearson Correlation	.156	-.156	-.165
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Current health status	Pearson Correlation	-.030	-.052	-.082
	Sig. (2-tailed)	.442	.189	.036
	N	649	649	649
Number of school absences	Pearson Correlation	1	-.147	-.125
	Sig. (2-tailed)		.000	.001
	N	649	649	649
First period grade	Pearson Correlation	-.147	1	.865
	Sig. (2-tailed)	.000		.000
	N	649	649	649
Second period grade	Pearson Correlation	-.125	.865	1
	Sig. (2-tailed)	.001	.000	
	N	649	649	649
Final grade / main outcome	Pearson Correlation	-.091	.826	.919
	Sig. (2-tailed)	.020	.000	.000
	N	649	649	649

Pearson Correlation Matrix
Pearson r, two-tailed significance, and pairwise sample size

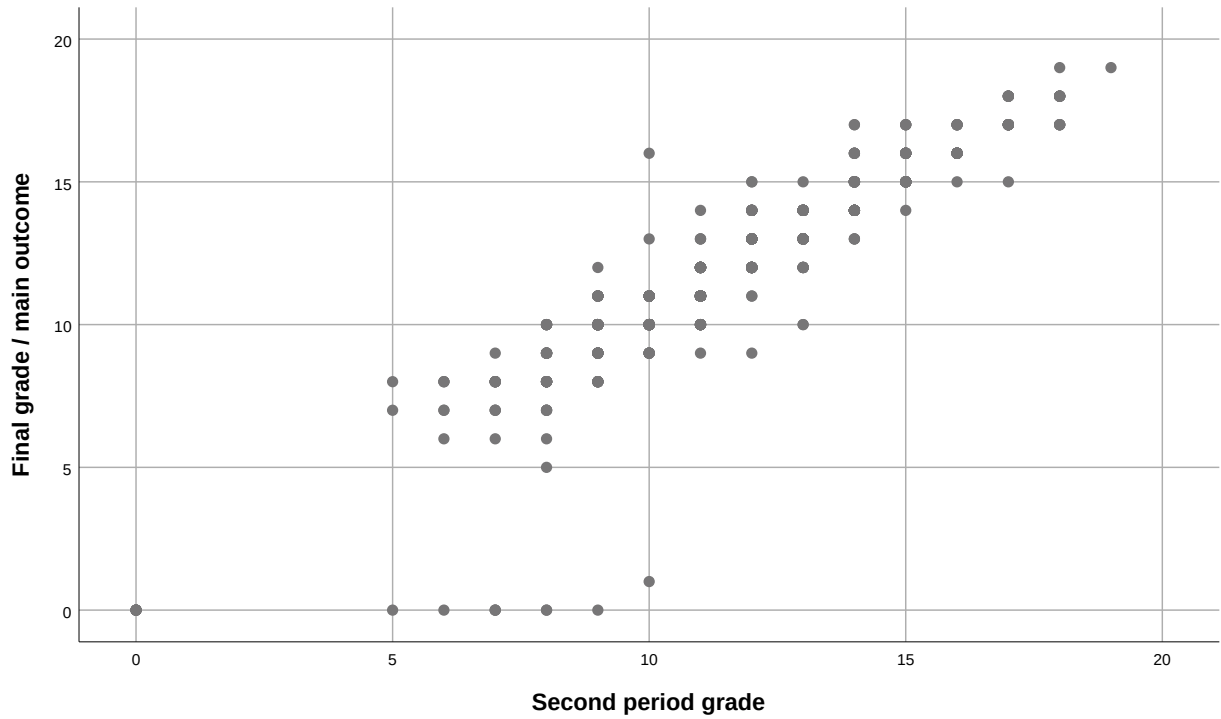
Correlations

		Final grade / main outcome
Workday alcohol consumption	Pearson Correlation	-.205
	Sig. (2-tailed)	.000
	N	649
Weekend alcohol consumption	Pearson Correlation	-.177
	Sig. (2-tailed)	.000
	N	649
Current health status	Pearson Correlation	-.099
	Sig. (2-tailed)	.012
	N	649
Number of school absences	Pearson Correlation	-.091
	Sig. (2-tailed)	.020
	N	649
First period grade	Pearson Correlation	.826
	Sig. (2-tailed)	.000
	N	649
Second period grade	Pearson Correlation	.919
	Sig. (2-tailed)	.000
	N	649
Final grade / main outcome	Pearson Correlation	1
	Sig. (2-tailed)	
	N	649

Pearson Correlation Focus Scatterplots

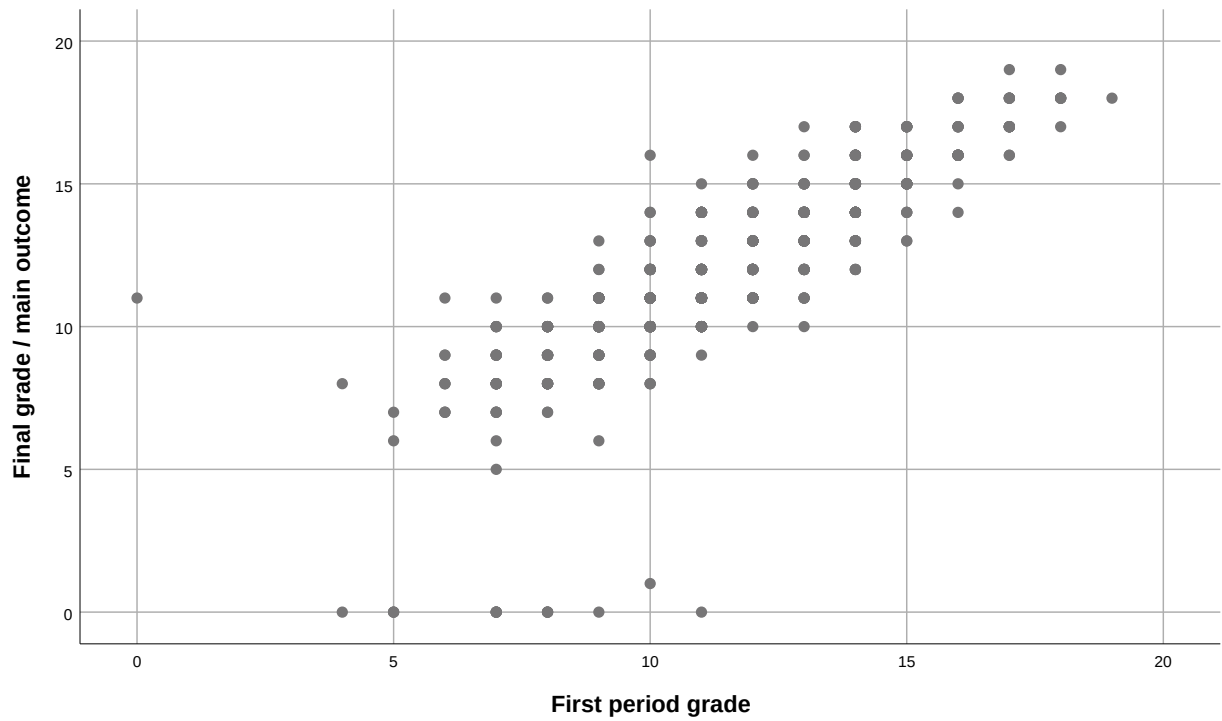
Pearson Correlation Focus Scatterplots
Linearity check for grade variables

Graph



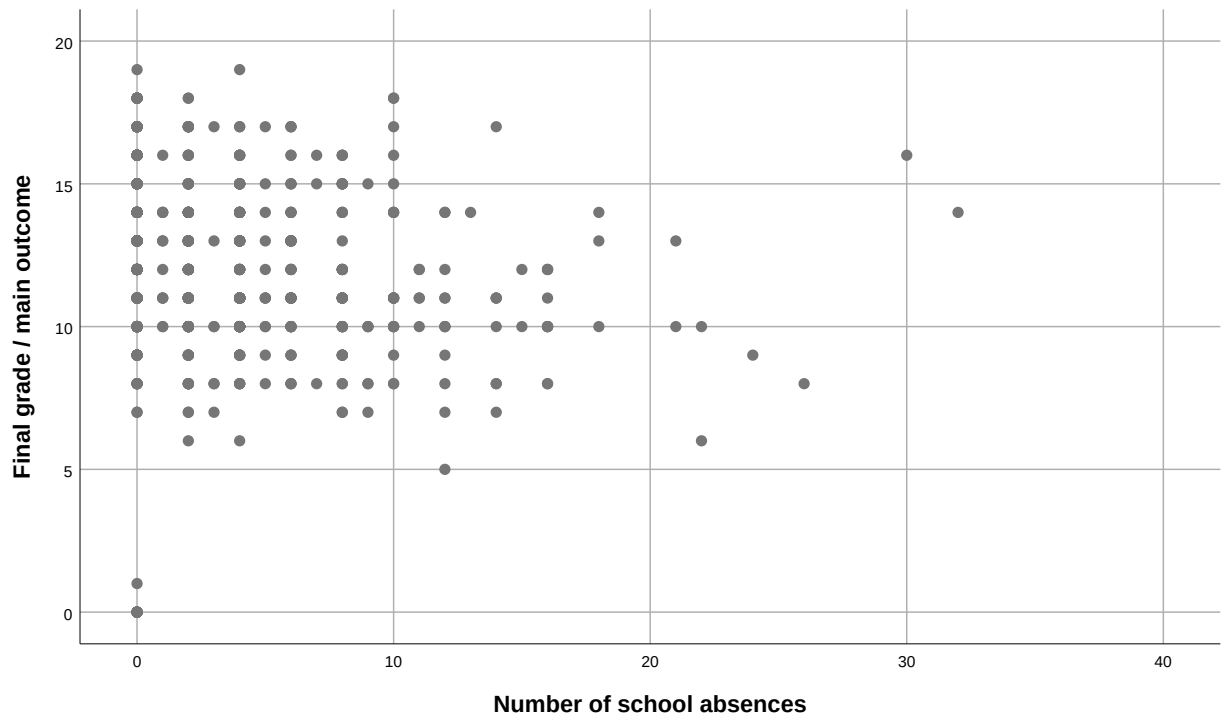
Graph

Pearson Correlation Focus Scatterplots
Linearity check for grade variables



Graph

Pearson Correlation Focus Scatterplots
Linearity check for grade variables



Pearson Correlation Focus Matrix

Pearson Correlation Focus Matrix
Grade and attendance variables

Correlations

Correlations

		First period grade	Second period grade	Final grade / main outcome
First period grade	Pearson Correlation	1	.865	.826
	Sig. (2-tailed)		.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	.865	1	.919
	Sig. (2-tailed)	.000		.000
	N	649	649	649
Final grade / main outcome	Pearson Correlation	.826	.919	1
	Sig. (2-tailed)	.000	.000	
	N	649	649	649
Number of school absences	Pearson Correlation	-.147	-.125	-.091
	Sig. (2-tailed)	.000	.001	.020
	N	649	649	649
Weekly study time	Pearson Correlation	.261	.240	.250
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Number of past class failures	Pearson Correlation	-.384	-.386	-.393
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649

Pearson Correlation Focus Matrix
Grade and attendance variables

Correlations

		Number of school absences	Weekly study time	Number of past class failures
First period grade	Pearson Correlation	-.147	.261	-.384
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	-.125	.240	-.386
	Sig. (2-tailed)	.001	.000	.000
	N	649	649	649
Final grade / main outcome	Pearson Correlation	-.091	.250	-.393
	Sig. (2-tailed)	.020	.000	.000
	N	649	649	649
Number of school absences	Pearson Correlation	1	-.118	.123
	Sig. (2-tailed)		.003	.002
	N	649	649	649
Weekly study time	Pearson Correlation	-.118	1	-.147
	Sig. (2-tailed)	.003		.000
	N	649	649	649
Number of past class failures	Pearson Correlation	.123	-.147	1
	Sig. (2-tailed)	.002	.000	
	N	649	649	649