

## Range Analysis

Range Analysis  
Import dataset

## Range Table

Range Table  
Minimum maximum range

## Frequencies

[RangeData] D:\DATA ANALYSIS\A Basic Descriptive Statistics Guides\Range\SPSS\_  
Output\sav\Range-data.sav

### Statistics

		G1	G2	G3	age	absences
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0
Mean		11.40	11.57	11.91	16.74	3.66
Median		11.00	11.00	12.00	17.00	2.00
Std. Deviation		2.745	2.914	3.231	1.218	4.641
Variance		7.536	8.489	10.437	1.484	21.537
Range		19	19	19	7	32
Minimum		0	0	0	15	0
Maximum		19	19	19	22	32

## Detailed Spread

Detailed Spread  
Boxplot and IQR

Explore

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
G1	649	100.0%	0	0.0%	649	100.0%
G2	649	100.0%	0	0.0%	649	100.0%
G3	649	100.0%	0	0.0%	649	100.0%
age	649	100.0%	0	0.0%	649	100.0%
absences	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error	
G1	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	
G2	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		

Detailed Spread  
Boxplot and IQR

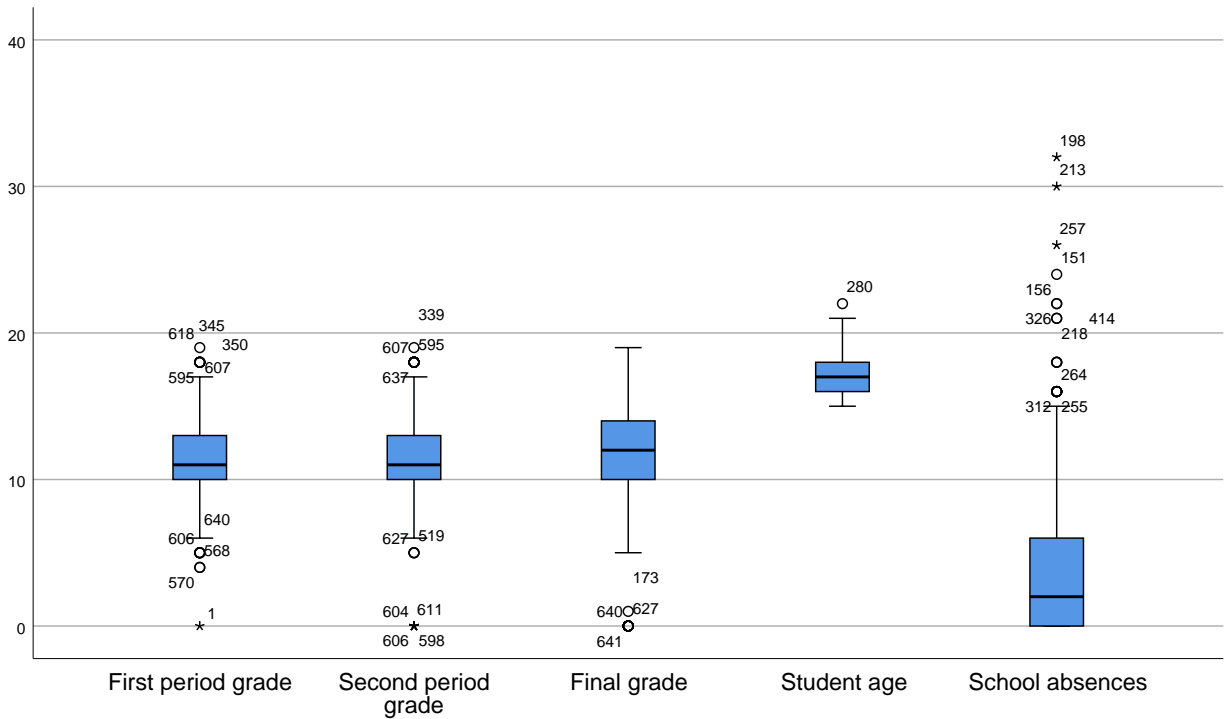
**Descriptives**

		Statistic	Std. Error	
	Maximum	19		
	Range	19		
	Interquartile Range	3		
	Skewness	-.360	.096	
	Kurtosis	1.662	.192	
G3	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	
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	
absences	Mean	3.66	.182	

Detailed Spread  
Boxplot and IQR

Descriptives

	Statistic	Std. Error
95% Confidence Interval for Mean	Lower Bound	3.30
	Upper Bound	4.02
5% Trimmed Mean	3.09	
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



## G3 Range by Sex

G3 Range by Sex  
Group spread

## Frequencies

### Statistics

G3

F	N	Valid	383
		Missing	0
	Mean		12.25
	Median		12.00
	Std. Deviation		3.124
	Range		19
	Minimum		0
	Maximum		19
	M	N	Valid
Missing			0
Mean			11.41
Median			11.00
Std. Deviation			3.321
Range			19
Minimum			0
Maximum			19

## Range Bands for G3

Range Bands for G3  
Four ordered groups

## RANK

### Created Variables<sup>a</sup>

Source Variable	Function	New Variable	Label
G3 <sup>c</sup>	Percentile Group <sup>b</sup>	G3_range_band	Percentile Group of G3

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

b. 4 groups are generated.

c. Ranks are in ascending order.

## Frequencies

### Statistics

G3\_range\_band

N	Valid	Missing
	649	0

### G3\_range\_band

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	197	30.4	30.4	30.4
	2	104	16.0	16.0	46.4
	3	217	33.4	33.4	79.8
	4	131	20.2	20.2	100.0
Total		649	100.0	100.0	

## G3 by Range Band

G3 by Range Band  
Mean and endpoints

**Means**

**Case Processing Summary**

	Included		Cases Excluded		Total	
	N	Percent	N	Percent	N	Percent
	G3 * G3_range_band	649	100.0%	0	0.0%	649

**Report**

G3

G3_range_band	N	Mean	Std. Deviation	Minimum	Maximum
1	197	8.42	2.699	0	10
2	104	11.00	.000	11	11
3	217	12.96	.789	12	14
4	131	16.12	1.089	15	19
Total	649	11.91	3.231	0	19