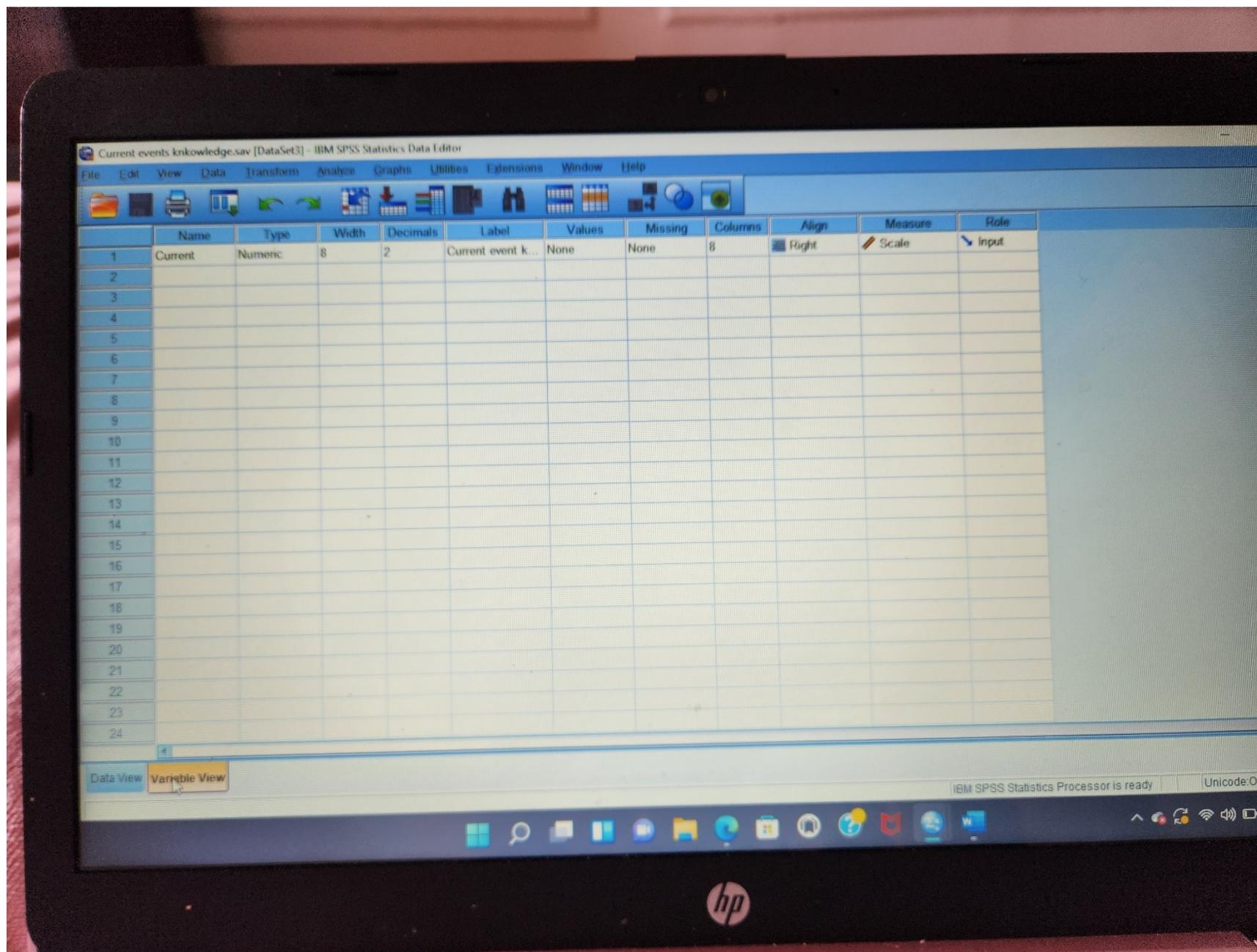


Carlina E. Lahoz- Ogando
EDG500 Educational Research and Statistics
Professor Bennett Schepens
March 11, 2023

Exercise chapter 5



Current events knknowledge.sav [DataSet3] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 1 of 1 Variabl

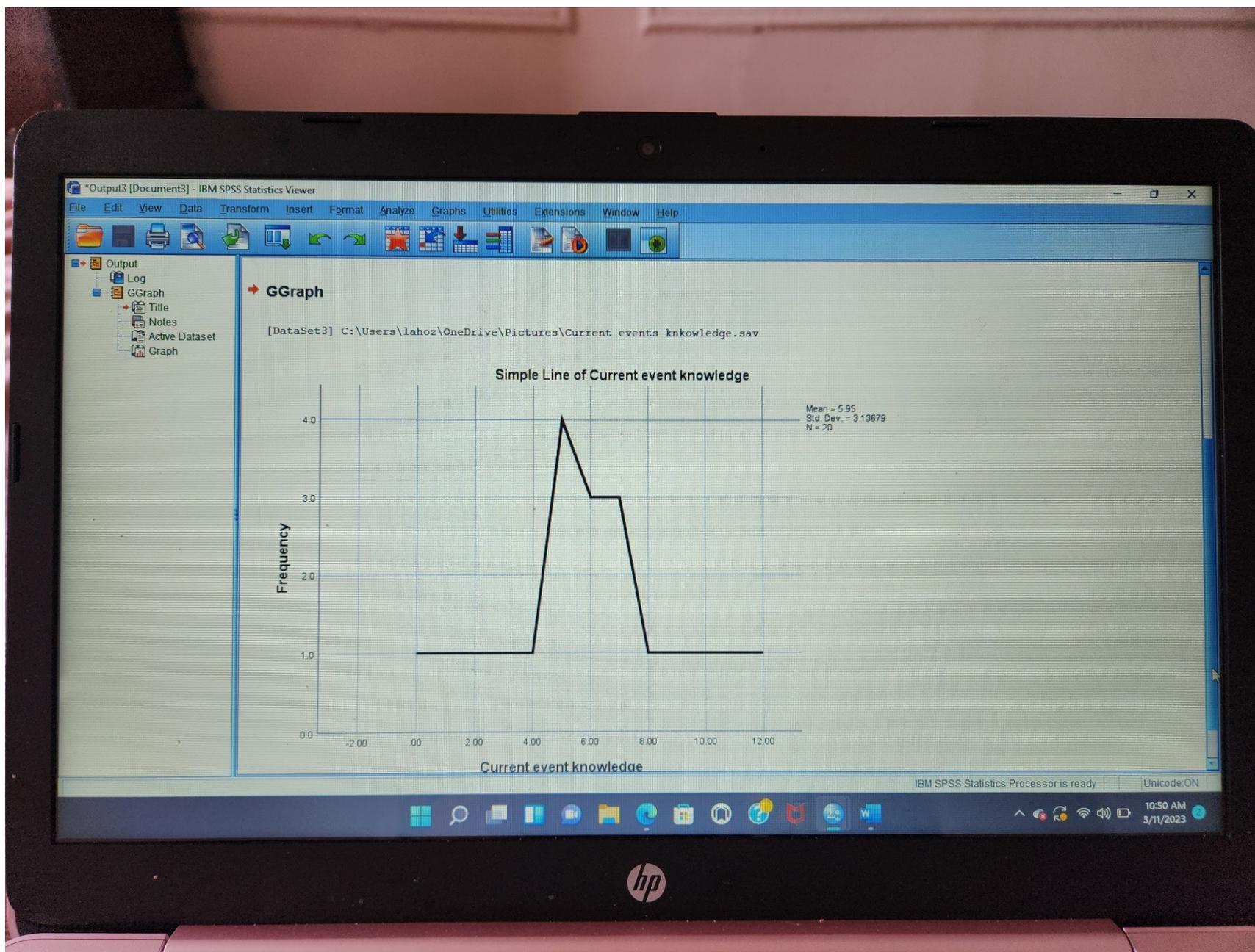
20 :	Current	var														
1	.00															
2	7.00															
3	1.00															
4	2.00															
5	3.00															
6	5.00															
7	7.00															
8	5.00															
9	10.00															
10	6.00															
11	8.00															
12	9.00															
13	5.00															
14	6.00															
15	4.00															
16	5.00															
17	7.00															
18	6.00															
19	11.00															
20	12.00															
21																
22																
23																

Data View Variable View

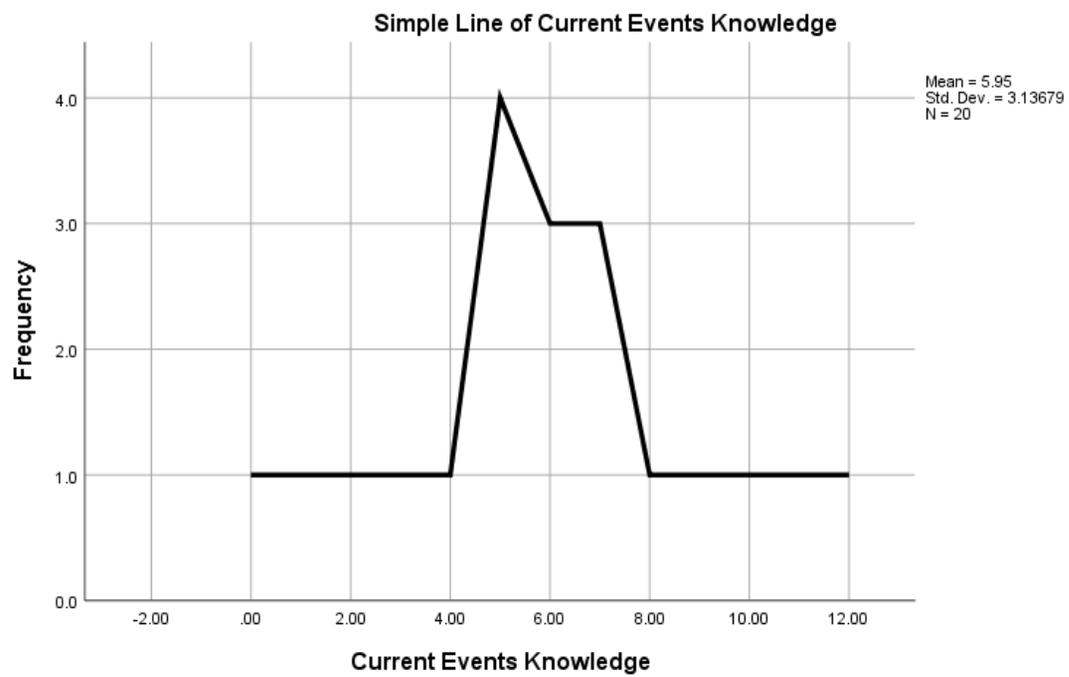
IBM SPSS Statistics Processor is ready Unicode:ON

10:46 AM 3/11/2023





1.



Current events knowledge test score on a scale from 0 to 12 for 20 students.

2.

*Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help



	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	Depression	Numeric	8	2	Depression sco...	None	None	8	Right	Scale	Input
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Data View Variable View

IBM SPSS Statistics Processor is ready

Unicode: ON



11:07 AM 3/11/2021



*Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 1 of 1 Variab

	Depressio n	var															
1	17.00																
2	18.00																
3	19.00																
4	20.00																
5	13.00																
6	13.00																
7	14.00																
8	14.00																
9	15.00																
10	16.00																
11	15.00																
12	10.00																
13	11.00																
14	12.00																
15	16.00																
16	17.00																
17	18.00																
18	15.00																
19	16.00																
20	14.00																
21																	
22																	

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode ON

11:07 AM 3/11/2023



	Depressio	var
1	17.00	
2	18.00	
3	19.00	
4	20.00	
5	13.00	
6	13.00	
7	14.00	
8	14.00	
9	15.00	
10	16.00	
11	15.00	
12	10.00	
13	11.00	
14	12.00	
15	16.00	
16	17.00	
17	18.00	
18	15.00	
19	16.00	
20	14.00	
21		
22		

Chart Builder

Variables: Chart preview uses example data

Depression scores

Simple Line of Depression scores

Line 1

X-Axis 1 (Line 1)

Y-Axis 1 (Line 1)

Title 1

Statistics

Variable: Depression scores

Statistic: Histogram

Set Parameters...

Display normal curve

Display error bars

Error Bars Represent

Confidence intervals

Level (%): 95

Standard error

Multiplier: 2

Standard deviation

Multiplier: 2

Interpolation

Type: Straight

Location: Left

Interpolate through missing values

OK Paste Reset Cancel Help

Data View Variable View

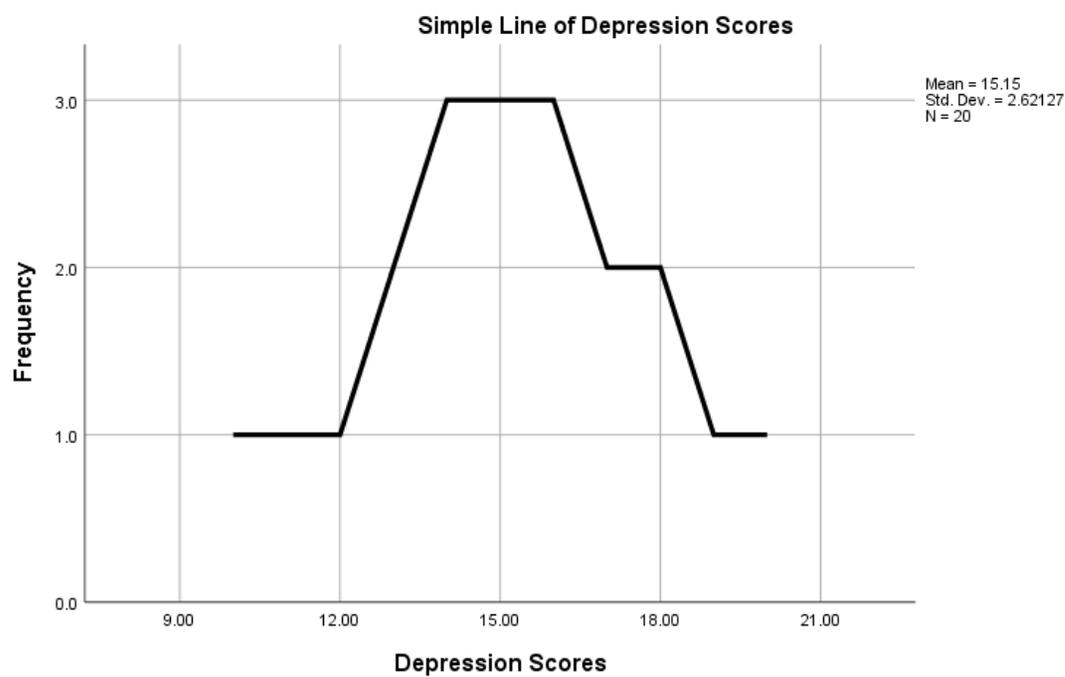
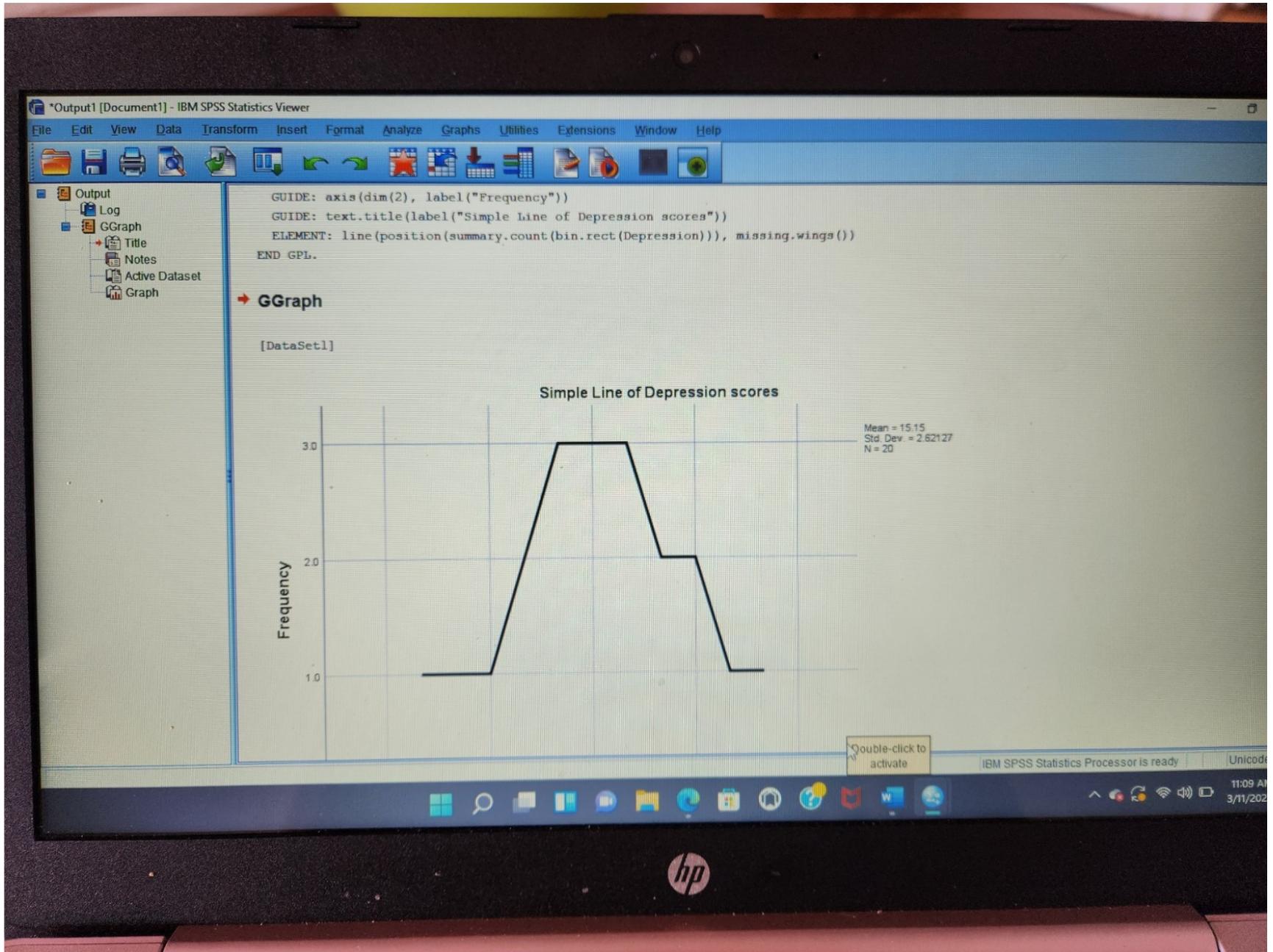
Visible: 1 of 1 Variables

Unicode ON



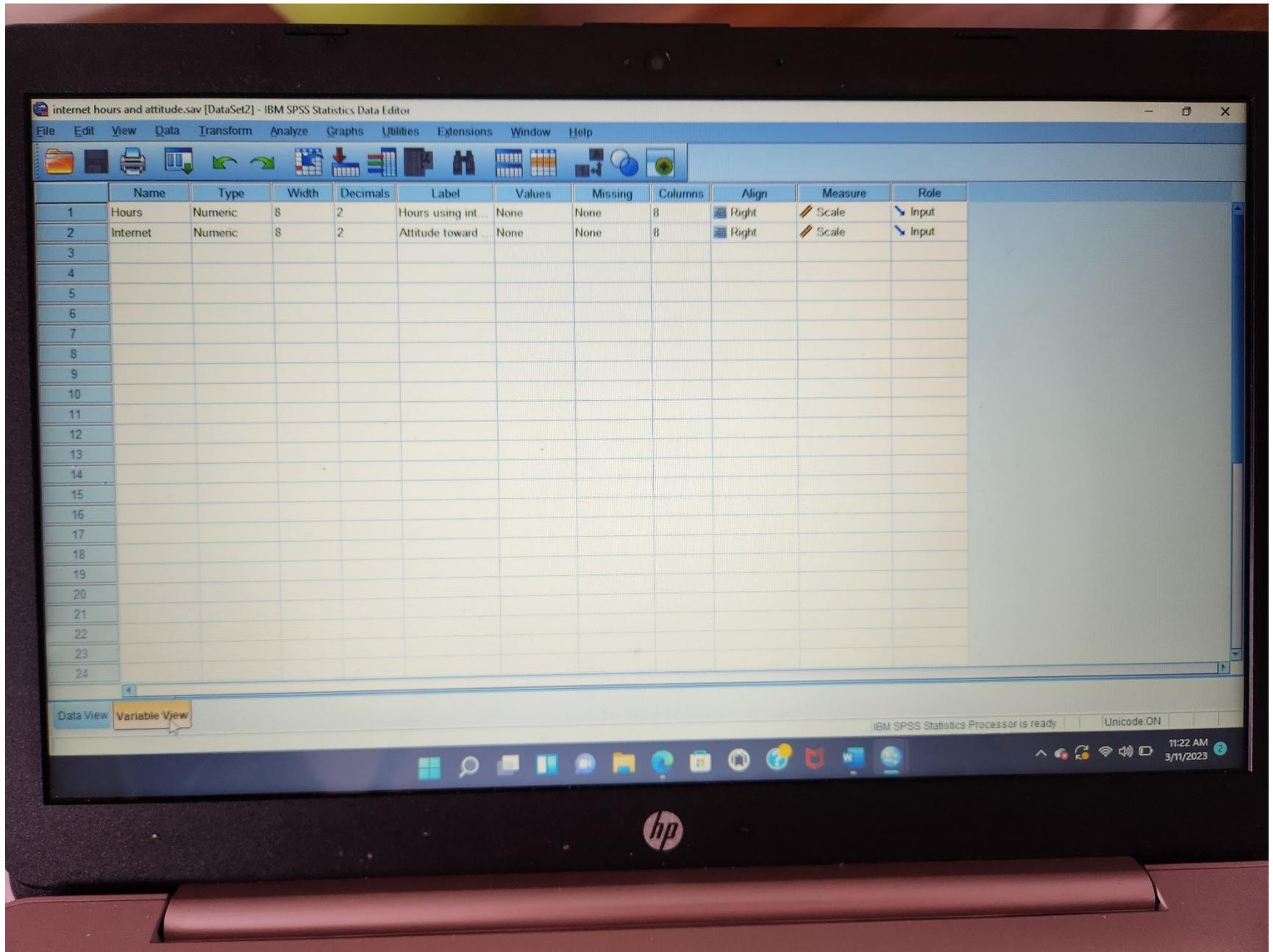
11:08 AM 3/11/2023





ABC Depression Inventory Scores on a Scale From 10 to 20 for 20 Clients.

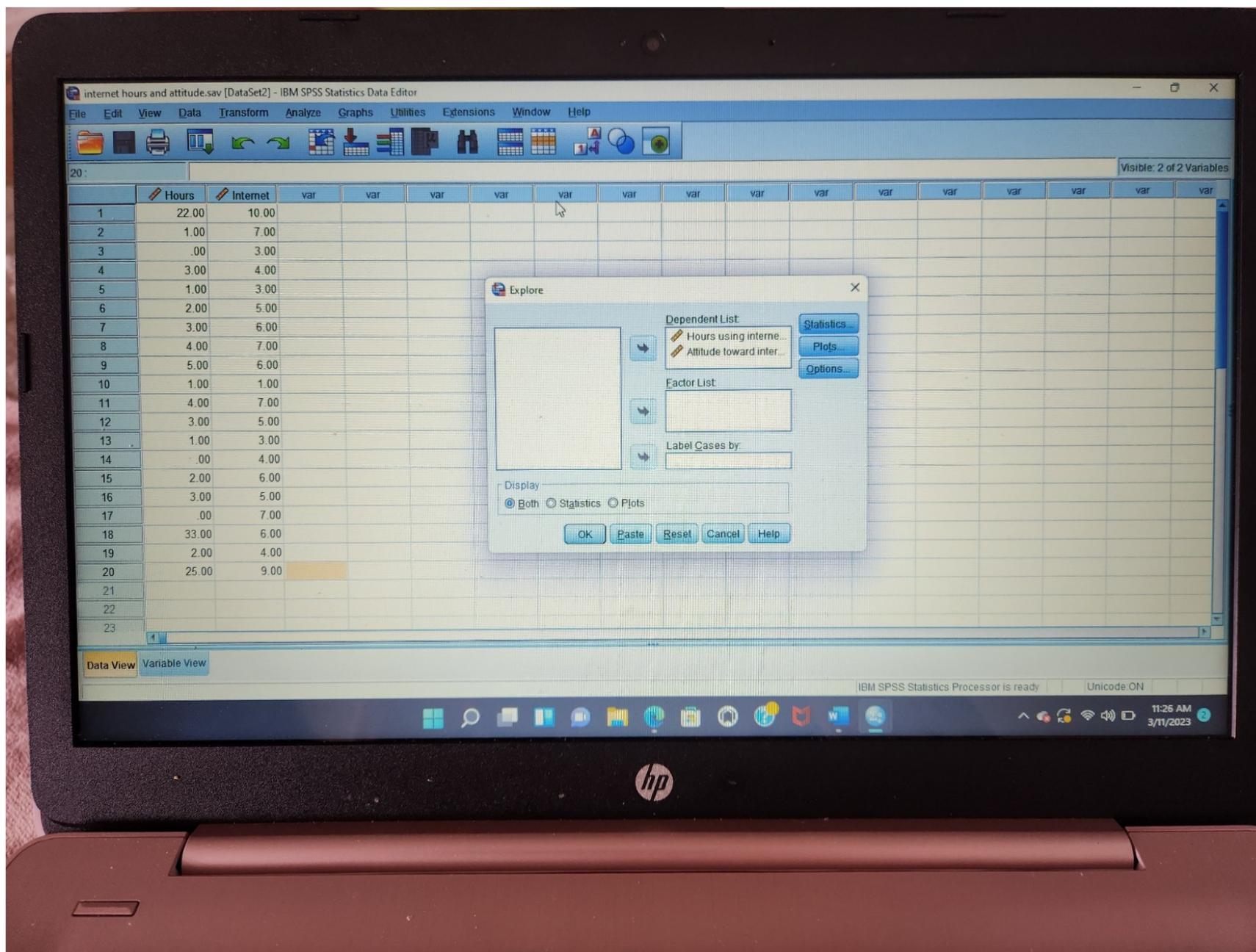
Chapter 6 Exercise



20: Visible: 2 of 2

	Hours	Internet	var													
1	22.00	10.00														
2	1.00	7.00														
3	.00	3.00														
4	3.00	4.00														
5	1.00	3.00														
6	2.00	5.00														
7	3.00	6.00														
8	4.00	7.00														
9	5.00	6.00														
10	1.00	1.00														
11	4.00	7.00														
12	3.00	5.00														
13	1.00	3.00														
14	.00	4.00														
15	2.00	6.00														
16	3.00	5.00														
17	.00	7.00														
18	33.00	6.00														
19	2.00	4.00														
20	25.00	9.00														
21																
22																
23																





NEW FILE.

DATASET NAME DataSet2 WINDOW=FRONT.

SAVE OUTFILE='C:\Users\lahoz\OneDrive\Pictures\internet hours and attitude.sav'
/COMPRESSED.

EXAMINE VARIABLES=Hours Internet

/PLOT BOXPLOT STEMLEAF

/COMPARE GROUPS

/STATISTICS DESCRIPTIVES

/CINTERVAL 95

/MISSING LISTWISE

/NOTOTAL.

Explore

Notes

Output Created

11-MAR-2023 11:24:31

Comments

Input	Data	C:\Users\lahoz\OneDrive\Pictures\internet hours and attitude.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
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=Hours Internet /PLOT BOXPLOT STEMLEAF /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:00.95
	Elapsed Time	00:00:00.61

[DataSet2] C:\Users\lahoz\OneDrive\Pictures\internet hours and attitude.sav

Case Processing Summary

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Hours using internet	20	100.0%	0	0.0%	20	100.0%
Attitude toward internet	20	100.0%	0	0.0%	20	100.0%

Descriptives

		Statistic	Std. Error	
Hours using internet	Mean	5.7500	2.08109	
	95% Confidence Interval for Mean	Lower Bound	1.3942	
		Upper Bound	10.1058	
	5% Trimmed Mean	4.5556		
	Median	2.5000		
	Variance	86.618		
	Std. Deviation	9.30690		
	Minimum	.00		

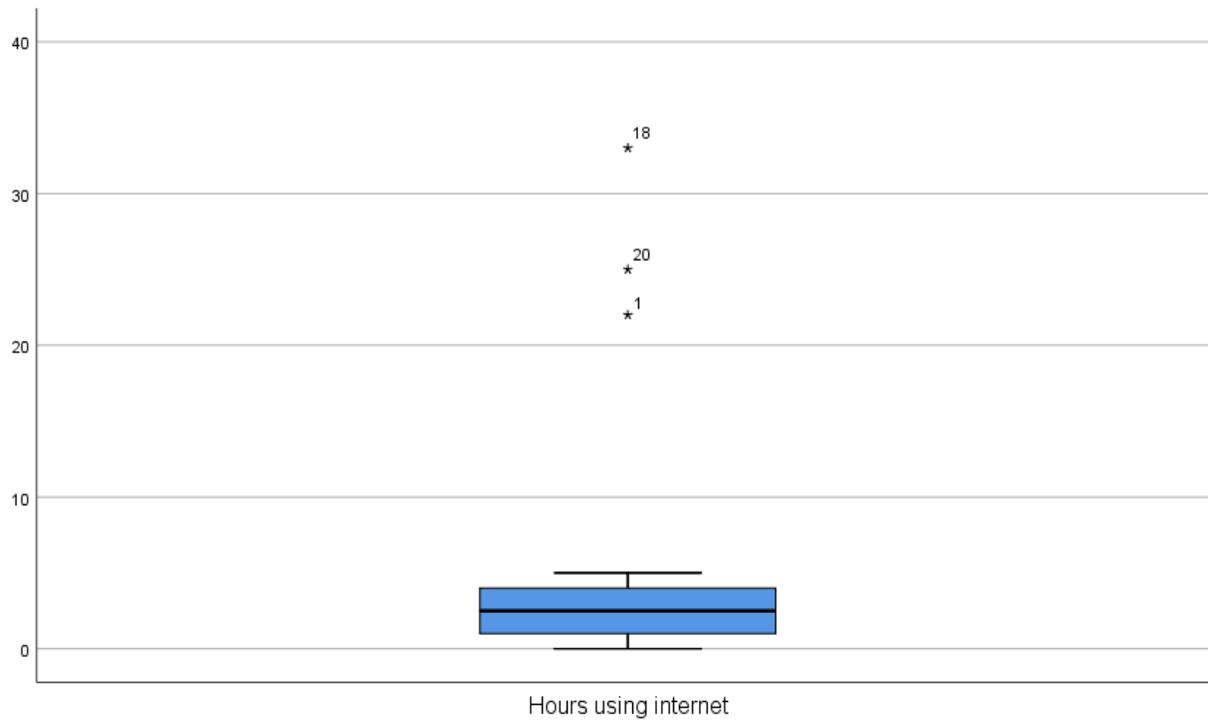
	Maximum		33.00	
	Range		33.00	
	Interquartile Range		3.00	
	Skewness		2.206	.512
	Kurtosis		3.823	.992
Attitude toward internet	Mean		5.4000	.48341
	95% Confidence Interval for	Lower Bound	4.3882	
	Mean	Upper Bound	6.4118	
	5% Trimmed Mean		5.3889	
	Median		5.5000	
	Variance		4.674	
	Std. Deviation		2.16187	
	Minimum		1.00	
	Maximum		10.00	
	Range		9.00	
	Interquartile Range		3.00	
	Skewness		.151	.512
	Kurtosis		.193	.992

Hours using internet

Hours using internet Stem-and-Leaf Plot

Frequency	Stem &	Leaf
3.00	0 .	000
4.00	1 .	0000
3.00	2 .	000
4.00	3 .	0000
2.00	4 .	00
1.00	5 .	0
3.00	Extremes	(>=22.0)

Stem width: 1.00
Each leaf: 1 case(s)

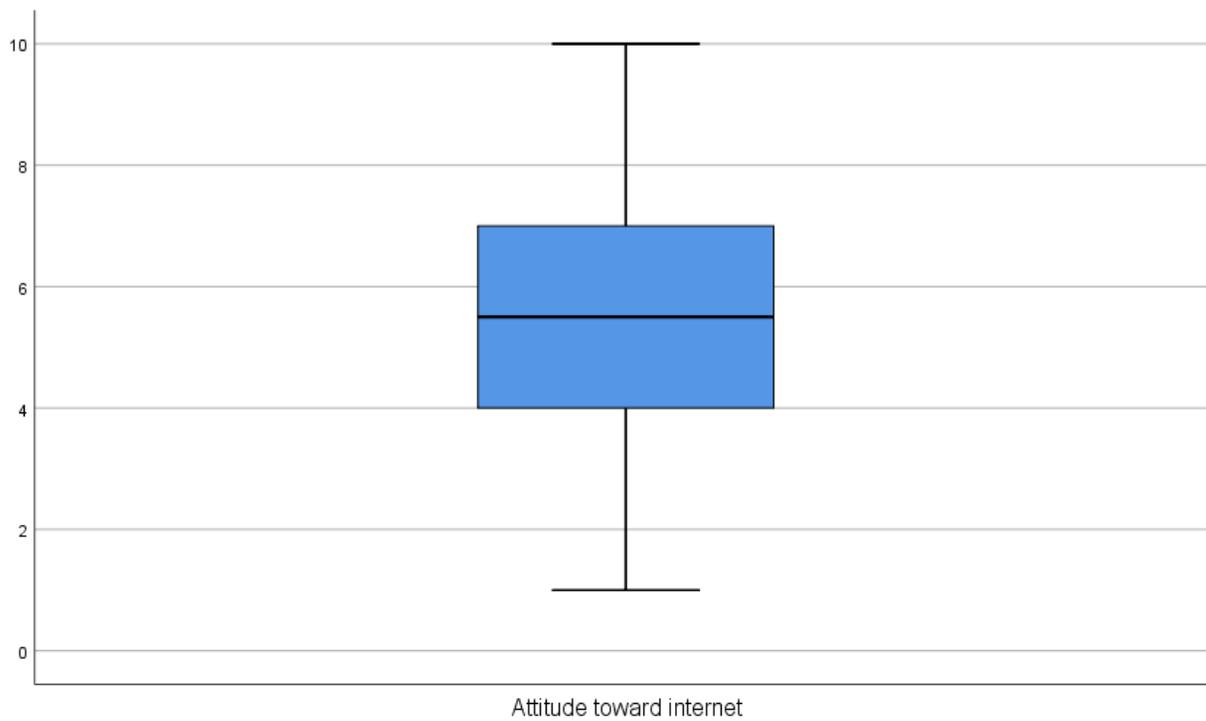


Attitude toward internet

Attitude toward internet Stem-and-Leaf Plot

Frequency	Stem & Leaf
7.00	0 . 1333444
12.00	0 . 555666677779
1.00	1 . 0

Stem width: 10.00
 Each leaf: 1 case(s)



```

DATASET CLOSE DataSet1.
EXAMINE VARIABLES=Hours Internet
/PLOT BOXPLOT STEMLEAF
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

Explore

Notes

Output Created		11-MAR-2023 11:25:20
Comments		
Input	Data	C:\Users\lahoz\OneDrive\Pictures\internet hours and attitude.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	20
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=Hours Internet /PLOT BOXPLOT STEMLEAF /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:00.94
	Elapsed Time	00:00:00.56

Case Processing Summary

	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Hours using internet	20	100.0%	0	0.0%	20	100.0%
Attitude toward internet	20	100.0%	0	0.0%	20	100.0%

Descriptives

		Statistic	Std. Error	
Hours using internet	Mean	5.7500	2.08109	
	95% Confidence Interval for Mean	Lower Bound	1.3942	
		Upper Bound	10.1058	
	5% Trimmed Mean	4.5556		
	Median	2.5000		
	Variance	86.618		
	Std. Deviation	9.30690		
	Minimum	.00		
	Maximum	33.00		
	Range	33.00		
	Interquartile Range	3.00		
	Skewness	2.206	.512	
	Kurtosis	3.823	.992	
Attitude toward internet	Mean	5.4000	.48341	
	95% Confidence Interval for Mean	Lower Bound	4.3882	
		Upper Bound	6.4118	
	5% Trimmed Mean	5.3889		
	Median	5.5000		
	Variance	4.674		
	Std. Deviation	2.16187		
	Minimum	1.00		
Maximum	10.00			

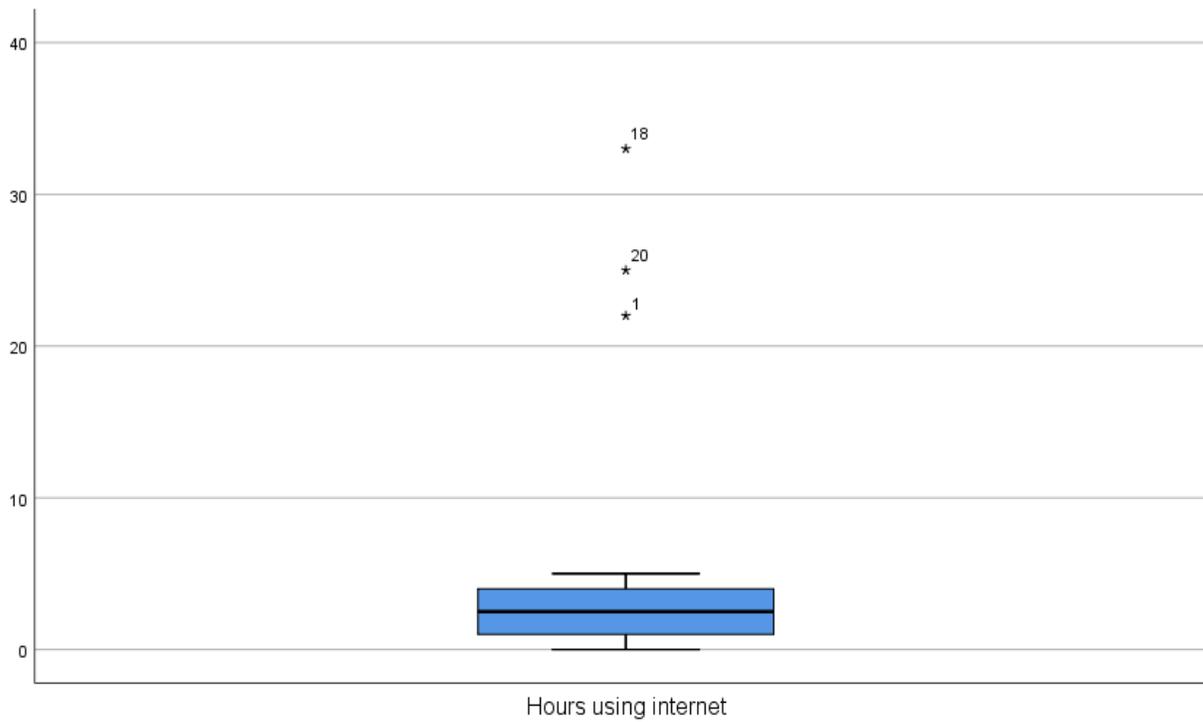
Range	9.00	
Interquartile Range	3.00	
Skewness	.151	.512
Kurtosis	.193	.992

Hours using internet

Hours using internet Stem-and-Leaf Plot

Frequency	Stem &	Leaf
3.00	0 .	000
4.00	1 .	0000
3.00	2 .	000
4.00	3 .	0000
2.00	4 .	00
1.00	5 .	0
3.00	Extremes	(>=22.0)

Stem width: 1.00
Each leaf: 1 case(s)

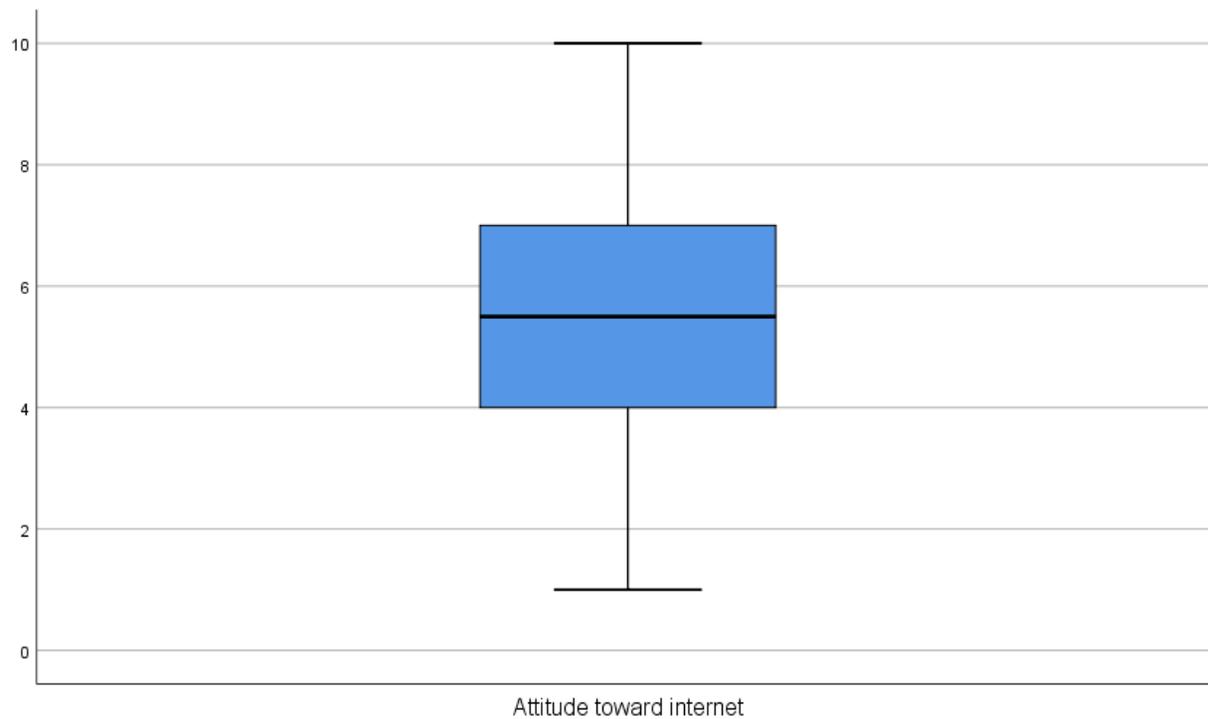


Attitude toward internet

Attitude toward internet Stem-and-Leaf Plot

Frequency	Stem &	Leaf
7.00	0 .	1333444
12.00	0 .	555666677779
1.00	1 .	0

Stem width: 10.00
Each leaf: 1 case(s)



Part 4 Use SPSS Statistics to calculate the mean and median for each of the two variables, and then save the output.

- What is the mean for Hours Using Internet? - 5.7500
 - What is the median for Hours Using Internet? - 2.5000
 - Would you report the mean, median or both the mean and median in a research report for Hours Using Internet? Explain. - I would report only the median because the mean is highly skewed.
 - Write a statement that presents one or both of the averages for Hours Using Internet. - Hours using Internet for 20 students where only 2 out of 20 students reported the most used hours in the Internet. The median number of hours using Internet was approximately more than 10 hours using the Internet
-
- What is the mean for Attitude Toward Internet? -5.4000
 - What is the median for Attitude Toward Internet? -5.5000
 - Would you report the mean, median, or both the mean and median in a research report for Attitude Toward Internet? Explain. - I would reported them both because there is not a great difference and it is not highly skewed distributed.
 - Write a statement that presents one or both of the averages for Attitude Toward Internet. - Attitude toward Internet for 20 students who spent hours on the internet was measured on this report scale with possible scores from 0 to 10 and the mean score was 5.4 hours while the media score reported 5.5 hours spent on the Internet.