

## Chapter 5

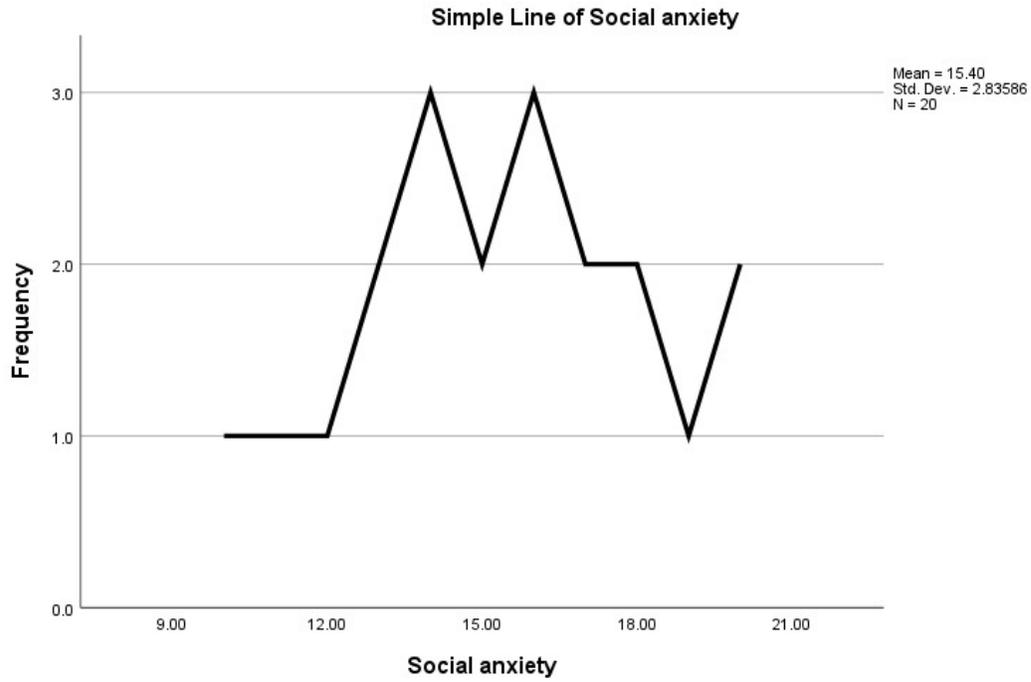


Figure 5.1. Frequency Polygon for Social Anxiety

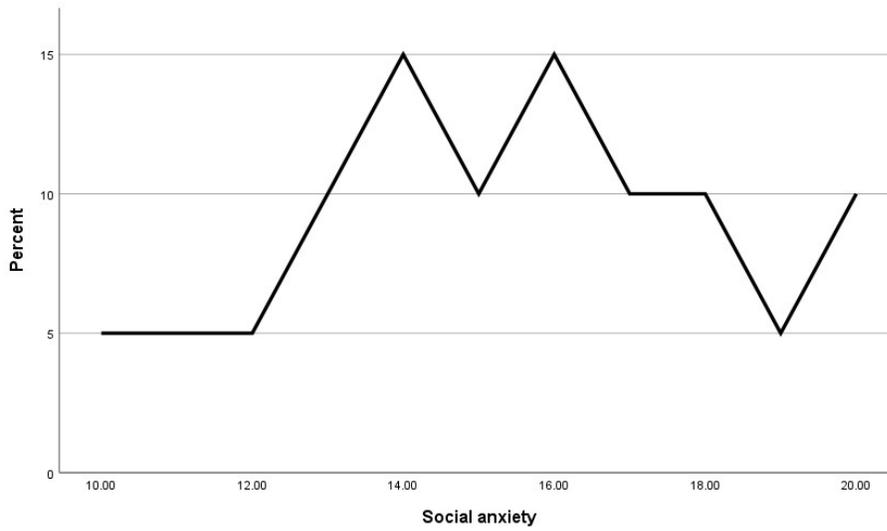


Figure 5.2. Polygon Showing Percentages for Social Anxiety Scores.

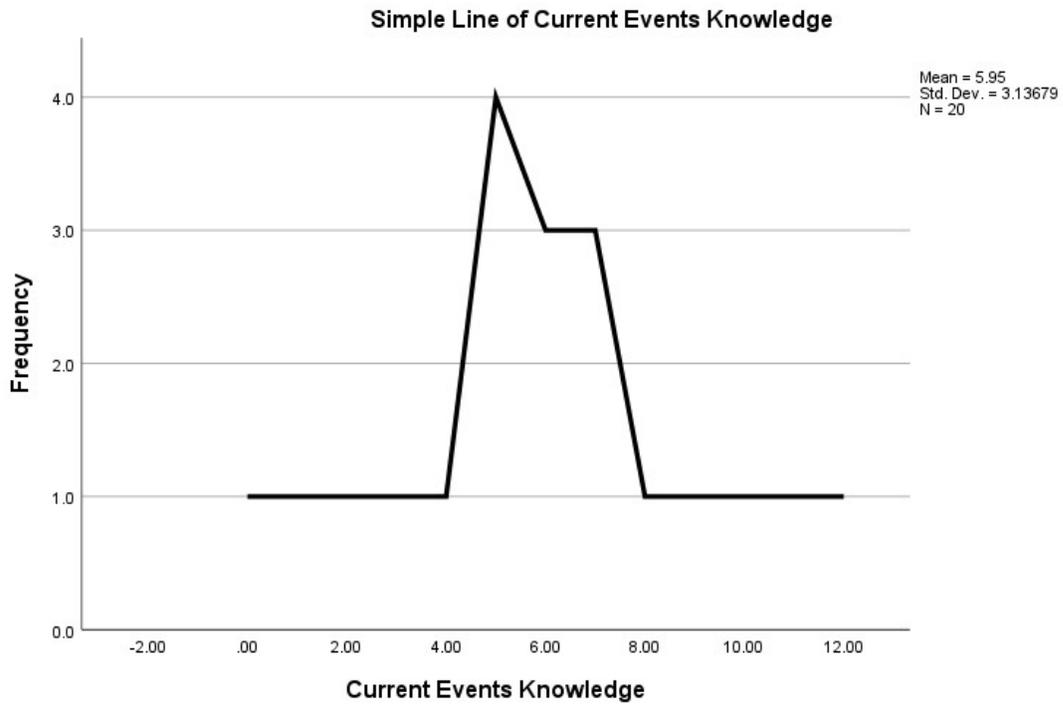


Figure 5.3. Frequency Polygon for Current Events Knowledge

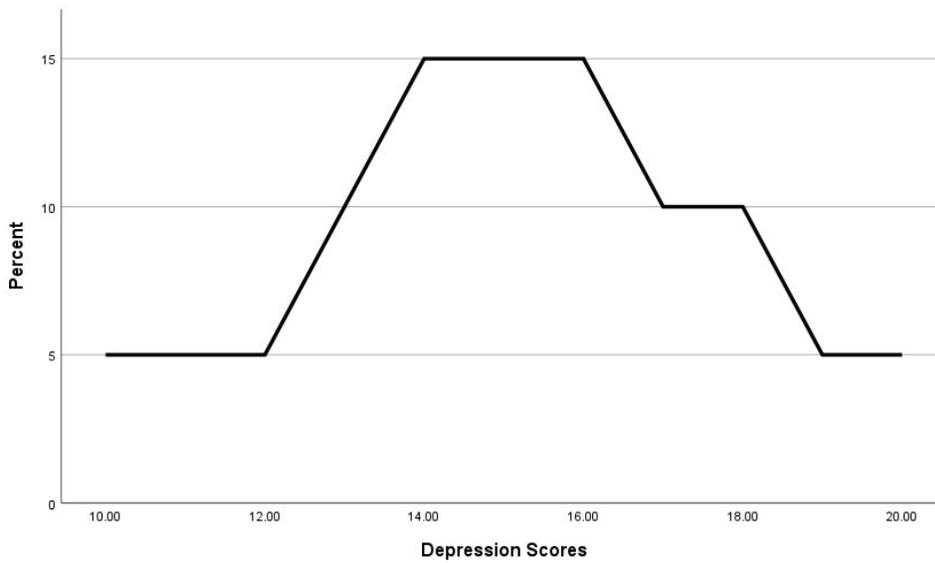


Figure 5.4. Polygon Showing Percentages for ABC Depression Inventory Scores.

Descriptives				
		Statistic	Std. Error	
Attitude Toward Tobacco	Mean	5.3000	.54338	
	95% Confidence Interval for Mean	Lower Bound	4.1627	
		Upper Bound	6.4373	
	5% Trimmed Mean	5.3333		
	Median	5.5000		
	Variance	5.905		
	Std. Deviation	2.43007		
	Minimum	1.00		
	Maximum	9.00		
	Range	8.00		
	Interquartile Range	4.50		
	Skewness	-.340	.512	
	Kurtosis	-.885	.992	
	Number of Cigarettes Smoked	Mean	20.5000	3.42014
		95% Confidence Interval for Mean	Lower Bound	13.3416
Upper Bound			27.6584	
5% Trimmed Mean		18.8889		
Median		15.5000		
Variance		233.947		
Std. Deviation		15.29534		
Minimum		8.00		
Maximum		62.00		
Range		54.00		
Interquartile Range		10.25		
Skewness		1.860	.512	
Kurtosis		2.574	.992	

Figure 6.1. Output for Attitude Toward Tobacco and Number of Cigarettes Smoked

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	

Figure 6.2. Output for Attitude Toward Internet and Hours Using Internet

4.

- What is the mean of Hours Using Internet 5.75
- What is the median of Hours Using Internet 2.50
- Would you report 'the mean' or 'the median' or 'both' in a research report for Hours Using Internet? Explain

I would report the median in a research report because the data is highly skewed with several data points which are significantly higher (i.e. 22, 33, and 25). These extreme data points cause the median and mean to differ significantly with the median being more typical than the mean. For this reason I would report the median in a research report.

- Write a statement that presents one or both of the averages for Hours Using Internet  
The distribution of hours using the internet is highly skewed, with only 3 of the 20 participants reporting that they spent more than 5 hours on the internet. The median number of hours was approximately 2.50. ( $mdn=2.50$ )

- What is the mean for Attitude Toward Internet? 5.40
- What is the median for Attitude Toward Internet? 5.50

- Would you report 'the mean' or 'the median' or 'both' in a research report for Attitude Toward Internet? Explain

The data for Attitude Toward Internet is a scale variable, and the distribution is not skewed. I would present the mean only in this instance. The median and mean do not differ greatly.

- Write a statement that presents one or both of the averages for Attitude Toward Internet.  
Attitude toward internet for 20 participants was measured on a self-report scale with possible scores from 0-10. The mean score was 5.40. ( $M=5.40$ )