

Giselle Swann

EDG500

Chapter 5: Step by Step

### GGraph

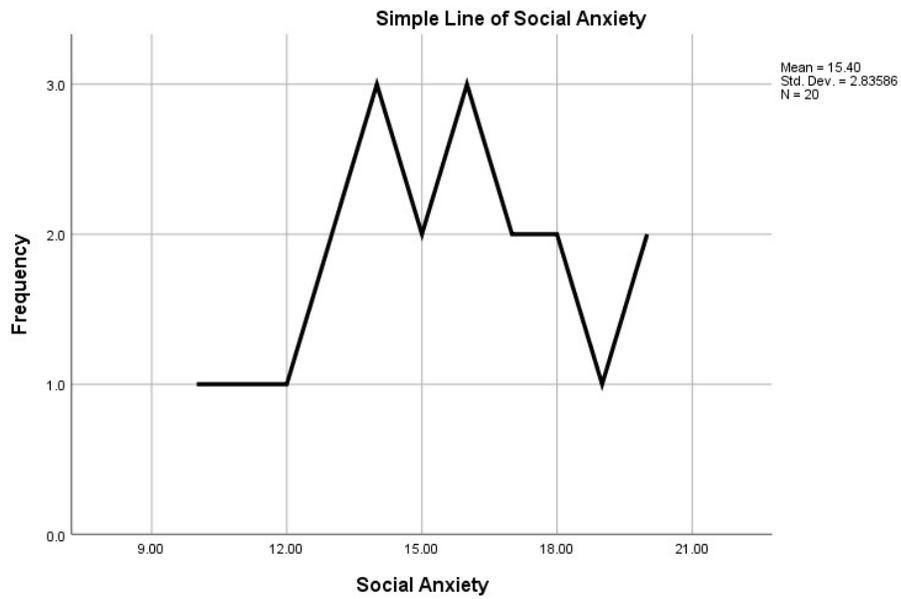


Figure 5.7. Frequency Polygon (SPSS Statistics format).

Chapter 5: Exercises

**GGraph**

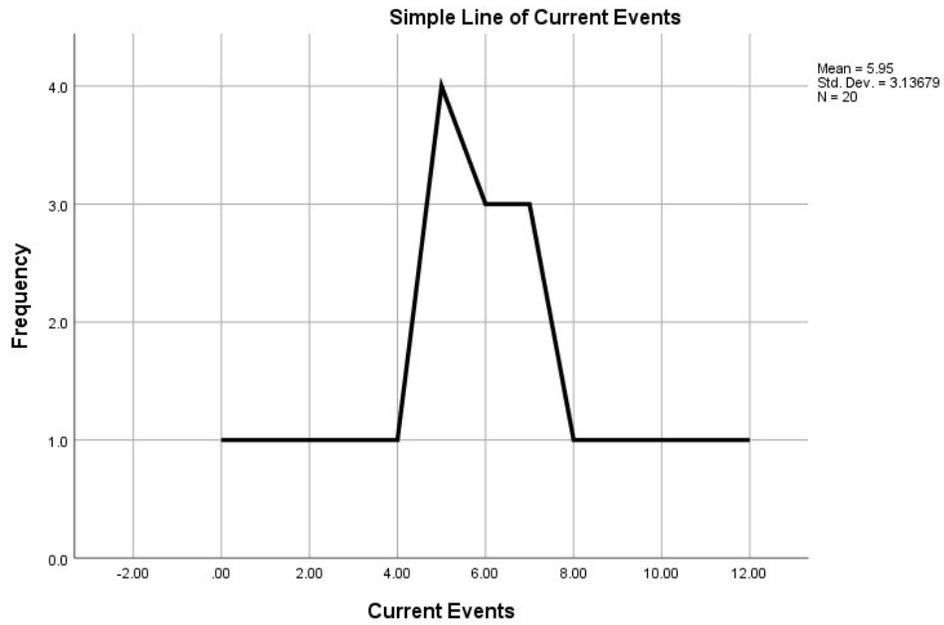


Figure 5.8. Frequency Polygon (SPSS Statistics format).

**GGraph**

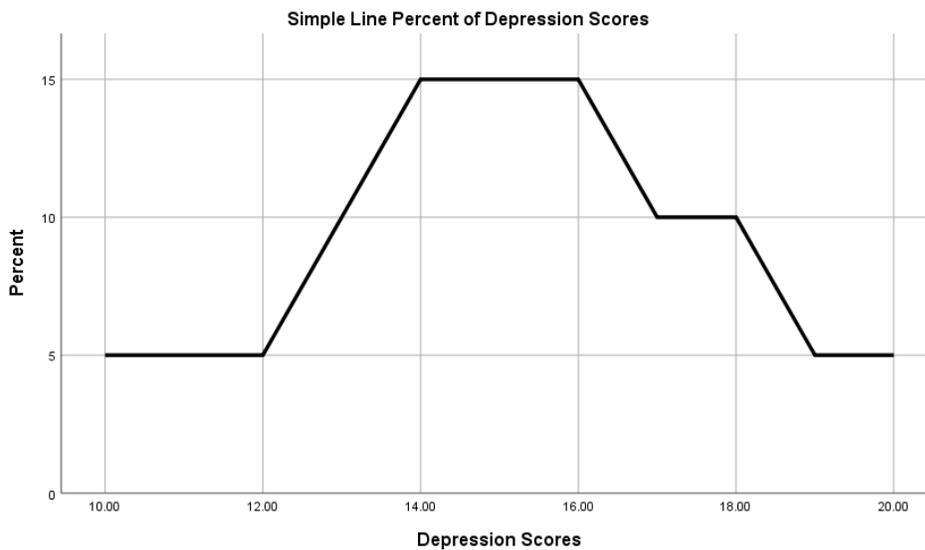


Figure 5.9. Polygon showing percentages for Depression scores.

Chapter 6: Step by Step

**Descriptives**

		Statistic	Std. Error	
Attitude Toward Tobacco	Mean	5.3000	0.54338	
	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	-0.340	0.512	
	Kurtosis	-0.885	0.992	
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	0.512	
	Kurtosis	2.574	0.992	

Figure 6.7. Portion of the output showing the means and the medians for **Attitude Toward Tobacco** and **Number of Cigarettes Smoked**.

Chapter 6: Exercise

**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	0.00		
	Maximum	33.00		
	Range	33.00		
	Interquartile Range	3.00		
	Skewness	2.206	0.512	
	Kurtosis	3.823	0.992	
Attitude Toward Internet	Mean	5.4000	0.48341	
	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	0.151	0.512	
	Kurtosis	0.193	0.992	

Figure 6.8. Portion of the output showing the means and the medians for **Hours Using Internet** and **Attitude Toward Internet**.

- 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, the median, or both the mean and the median in a research report for **Hours Using Internet**? Both, Mean and the Median  
Explain: The distribution is highly skewed.

- d. Write a statement that presents one or both of the averages for **Hours Using Internet**:  
The distribution of hours using internet is highly skewed, with only 3 of the 20 students reporting they used the internet 22 hours or more. The median number of hours using the internet was approximately 2 hours ( $Mdn = 2.50$ ). Because the distribution is highly skewed to the right, the mean ( $M = 5.75$ ) is higher than the median.
- e. What is the mean for **Attitude Toward Internet**? 5.4000
- f. What is the median for **Attitude Toward Internet**? 5.5000
- g. Would you report the mean, the median, or both the mean and median in a research report for **Attitude Toward Internet**? Mean  
Explain: The distribution is not highly skewed, so the mean is the preferred statistic for describing the average.
- h. Write a statement that presents one or both averages for **Attitude Toward Internet**:  
Attitude Toward Internet for 20 students was measured on a self-report scale with possible scores from 0 to 10. The mean score was 5.40.