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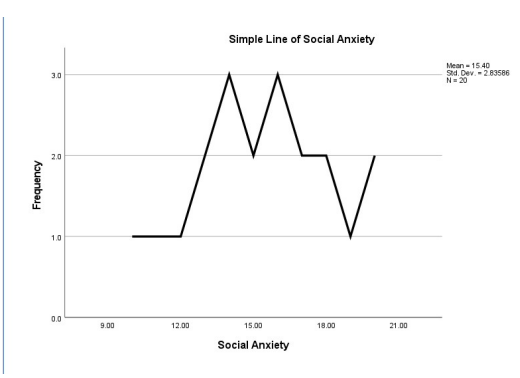
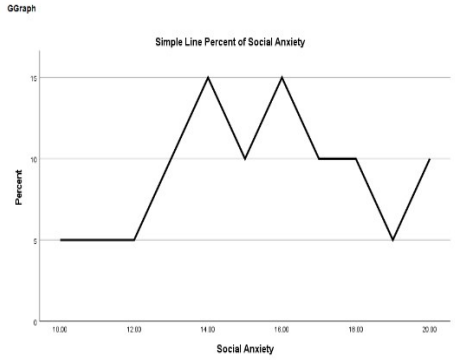
EDG500: Educational Research and Statistics

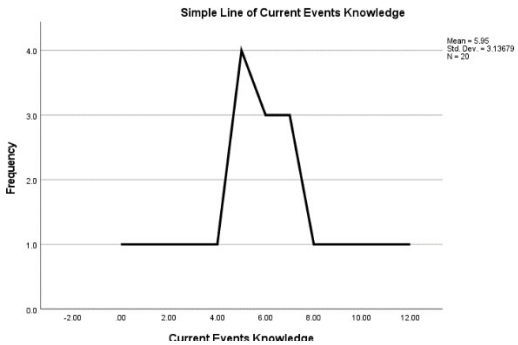
SPSS Chapters 5 and 6

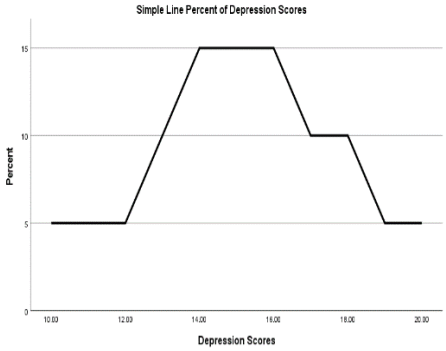
## Chapter 5 Step by Step




## Chapter 5 Exercises



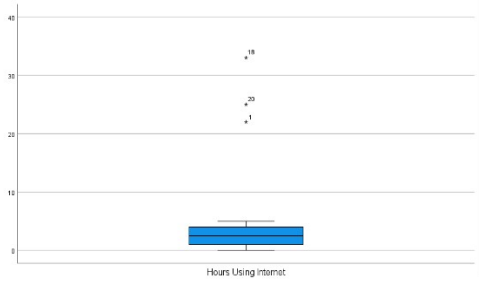

## Chapter 6

**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)

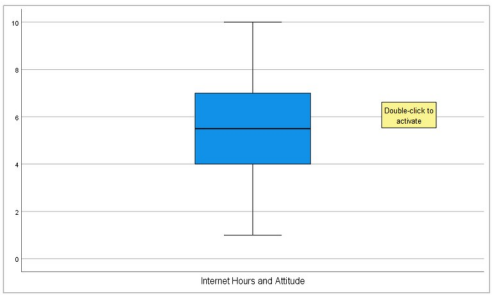



**Internet Hours and Attitude**

Internet Hours and Attitude 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)



Chapter 6

**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 |
| Internet Hours and Attitude | 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 |

**Case Processing Summary**

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Hours Using Internet | 20 | 100.0% | 0 | 0.0% | 20 | 100.0% |
| Internet Hours and Attitude | 20 | 100.0% | 0 | 0.0% | 20 | 100.0% |

Exercise 4:

a. The mean for Hours Using Internet was: 5.75.

b. The median for Hours Using Internet was: 2.50.

c. The mean and median would be reported for Hours Uning Internet.

d. The distribution of Hours Using Internet was highly skewed, with only 3 of the 20 students reporting that they used the internet 22 hours or more in a week. The median number hours using the internet was 2.50 hours (*Mdn* = 2.50) Because the distribution is highly skewed to the right, the mean (*M* = 5.75) is substantially higher than the median.

e. The mean for Attitude Toward Internet was: 5.40.

f. The median for Attitude Toward Internet was: 5.50.

g. Only the mean would be reported because the distribution was not highly skewed. The mean would be the preferred statistic.

h. Attitude Toward Internet for 20 students who used the Internet for course-related information during the week was measured with possible scores from 0 to 10. The mean score was 5.40.