**For the following questions use SPSS to complete the appropriate analysis. Type your answer and staple your SPSS output to the back of your assignment.**

**Note: Use Alpha =.05 for all of your analyses.**

1. A motivated graduate student wanted to compare 6th, 8th, and 12th grade students' interest in math and science. She counted how many students checked out math and science encyclopedias from the school library each week. The ‘interest scale’ is 0 to 12(0 being no interest and 12 being highest interest in math and science).

|  |  |  |
| --- | --- | --- |
| 6th grade | 8th grade | 12th grade |
| 1 | 4 | 12 |
| 0 | 5 | 10 |
| 2 | 4 | 9 |
| 3 | 2 | 6 |
| 0 | 3 | 8 |

Report your findings in APA format.

2. A researcher wants to know if city region (North versus South Dallas) and time of day (morning versus afternoon) influence number of crimes? Below are her data:

Number of Crimes:

|  |  |  |
| --- | --- | --- |
|  | North Dallas | South Dallas |
| Morning | 5  8  6  4  5 | 11  9  14  9  8 |
| Afternoon | 10  13  14  12  12 | 3  3  3  4  5 |

Report your results in APA format.

3. Determine if high school region (East Coast, Midwest, West Coast) and gender impact overall memory scores. Below are the data:

Memory Scores

|  |  |  |
| --- | --- | --- |
|  | Male | Female |
| East Coast | 9  7  7  5  4  4 | 11  13  13  12  8  9 |
| Midwest | 11  12  11  10  9  8 | 11  11  12  13  13  11 |
| West Coast | 7  6  6  5  8  9 | 8  7  7  6  7  5 |

Report your findings in APA format.