**Part 2**

The data file “”Final\_data” contains the following variables: (Date must be used on SPSS)

1. **Management** Categorical factor with 3 levels describing the type of management structure of the school
2. **Location:** Categorical factor with 3 regions depicting location of the school
3. **Math\_gain:** Continuous/scale level variable depicting the average math gain for the school (pre-post assessment)
4. **Write\_gain:** Continuous/scale level variable depicting the average writing gain for the school (pre-post assessment).

The sample is comprised of 90 alternative primary (k-5) schools.

**Research Questions:**

1. How do management and location of the school impact math performance?

2. Does the impact of management on math performance vary by location?

3. How does the management structure impact overall academic performance of a school?

Scoring rubric

|  |  |
| --- | --- |
|  | Value |
| Descriptive statistics | 5 |
| Selection of statistical analyses | 10 |
| Model Summaries | 15 |
| Significance of predictors, relative contribution | 20 |
| Factor level effects, Simple effects | 20 |
| Narrative (concise, accurate) | 10 |
| Limitations | 5 |
| Model adequacy | 10 |
| Structure, APA Format | 5 |
|  | 100 |

***Suggestion/Hint: Questions 1 and 2 may be addressed with the same model. Question 3 will require a separate model and write-up.***