Challenge 4 Written Analysis

*To receive all points, the written report presents a cohesive written analysis that:*

* *Summarizes the analysis (5 points)*
* *Draws two correct conclusions or comparisons from the calculations (10 points)*

School budgets vary and don’t seem consistently different for charter schools versus district schools. There are almost 40,000 students in the district between all schools. All schools combined, the district has a budget of almost 25 million dollars.

The average math score is 78.99% and the average reading score is 81.88% for all students. The percentage of students who passed math is 74.98%. 85.81% of students passed reading. The percentage of students district-wide that passed math AND reading is 65.17%. School math averages range from 75-85%. School reading averages range from 80-85%. The percentage of students passing math per school ranges from 66-95%. The percentage of students passing reading per school ranges from 79-98%. The per school overall passing rates range from 52-92%.

Within schools, there are not more than 2% differences in passing rates between individual grades, for reading, math, or overall. Surprisingly, the schools with the lowest spending range per student (<$585) have the highest average scores and percentages passing math/reading/overall. **This could mean that the district spends more on schools that are underperforming (but not necessarily).**

The district has two types of schools – district and charter. There seems to be a correlation between having fewer students per school and being a charter school. That is, charter schools have fewer students. In addition, students at smaller schools have higher average score and passing rates – small and medium do far, far better than larger schools. And there is correlation between being a charter school and better student performance. **This could mean that there are better staff-to-student ratios at small schools or that students individually get more attention academically, and therefore excel. But again, it might be spurious.**