**Overview**

This challenge focused on understanding how a variety of schools compare to one another on the basis of total budget, budget per pupil, and test scores across reading and maths. The analysis further segments schools down by size and type (independent or public). A summary of the analysis for each question is provided below with two conclusions or comparisons provided at the end.

**Average Math Score**

* The average math score overall was 70% with Holden, Bailey, Pena, Rodriguez, Wright, Shelton, Griffin, Cabrera High School having an average maths score above the mean/average. The remaining schools had a school maths average below the overall average score. All top performing schools (who score above the overall average) are Independent schools except Bailey and Rodriguez High School

**Average Reading Score**

* The average reading score overall was 69.98%, rounded is the same as the average maths score.
* Holden, Pena, Cabrera, Griffin, Bailey, Wright, Rodriguiez and Shelton High School had a school score average above the overall mean. These are the same schools where the maths average for the school was above the overall average also.

**% Passing Math**

* With a percentage of 50% equal to or greater as a pass, the majority of students passed (86%).

**% Passing Reading**

* With a percentage of 50% equal to or greater as a pass, the majority of students passed (84%).

**% Overall Passing**

* The overall passing of both maths and reading was 73% rounded.
* There is a greater number of students who passed maths (33717) compared to reading (33070) with the total who passed both reading and maths (28519) the lowest proportion.
* The top 5 schools are divided amongst Government and Independent schools, with Government Schools Bailey and Rodriguez High School in the top 5.

**Per Student Budget & Spending Ranges**

* The average spend per number of students is highest across Government schools except Thomas High School.
* Performance in maths and reading was observed in a spending range per student of $585-630 with higher spending ranges demonstrating reduced performance in maths, reading and in performance across both maths and reading.

Conclusions

* Schools with a small size (number of students) performed the best overall in maths and reading and in both maths and reading, closely followed by medium then large.
* Independent schools performed the best compared to government schools in maths and reading average scores and the percentage passing math, passing reading and passing both maths and reading.
* Using graphs to demonstrate data trends and relationship between variables would make drawing conclusions from the data somewhat easier or more readily identifiable.