**Pandas challenge – written report**

**Summary of analysis**

**In this dataset, there were:**

* 15 schools
* 39170 students in total
* A total budget of $24,649,428
* Across all schools, the average maths score was 70.338192 and the average reading score was 69.980138
* Across all schools, the percentage of those who passed maths was 86.078632 and the average of those who passed reading was 84.426857
* The percentage of those who passed overall was 72.808272

**Top and bottom performing school:**

* The top performing school by % overall passing was Griffin High School
* The bottom performing school by % overall passing was Hernandez High School

**Maths scores by year:**

* The analysis indicates that there isn’t too much variation between the maths scores of different year groups across all surveyed high schools

**Reading scores by year:**

* The analysis indicates that there isn’t too much variation between the reading scores of different year groups across all surveyed high schools

**Draws two correct conclusions or comparisons from the calculations**

**Scores by school spending:**

* The spending range per student that correlates with the highest overall passing (79.88) is between $585-$630. Spending ranges higher than this range ($630-$645 or $645-$680) correlate with lower overall passing scores (71.00 and 66.76)

**Scores by school size:**

* Smaller (<1000) and medium (1000 – 2000) schools associate with higher averages of percentage of overall passing (79.07 and 78.04)
* Whereas bigger schools (2000 – 5000) associate with a lower average of percentage of overall passing (70.29)

**Scores by school type:**

* Independent schools associate with higher average of overall passing (76.97) compared to government schools (70.70)