

Report

I have conducted an analysis on the academic performance of 15 high schools within the district. The school type, size, and per-student budget are used as variables, and they are considered to be independent in this analysis. Even though there might be some correlation between the variables, such as government schools tend to have a larger size and independent schools tend to have a higher per-student budget, however, the existence or the extent of those correlations were not analyzed in this instance.

Maths score, reading score, maths pass rate, reading pass rate and the percentage of having passed both maths and reading are used as indicators of the academic performance. My conclusions were primarily drawn according to the percentage of having passed both maths and reading.

The following are the tendencies that have been observed from my calculation results. Please also refer to the Excel outputs for more detailed information.

1. "Cost doesn't improve pass rate." Academic performance does not increase along with per-student budget. The medium/low-budget schools performed best, and the schools that had the highest budget had the worst overall passing rate.
2. School size wise, small-sized schools did the best, and medium-sized schools had a slightly lower overall passing rate. Large-sized schools have a much lower performance than the other two categories.
3. Independent schools had a higher overall passing rate than Government schools. The average passing (both maths and reading) rate of all 15 schools is 72.81%. The government schools' performance is lower than the average (70.70), while the independent schools' performance is above the average (76.97%).
4. There were 3 independent and 2 government schools in the top 5, and the first 2 were both independent. Furthermore, there were 4 independent schools in the top 6. It is noticeable that independent schools tend to perform better.
5. There were 4 government schools in the bottom 5, and the bottom 3 were all government. Government schools perform significantly worse than independent schools.

My analysis indicates that smaller schools that are run by non-government organizations are likely to have better academic performance. Stronger financial support does not correlate with better performance. It is possible to achieve a high pass rate from a relatively low budget.