

Report Analysis

A total of 15 schools (charter and district type) were reviewed, with a total of 39,170 students from 9th to 12th grade. (Table 1)

Analyzing the results obtained in detail, we can confirm that students who attend Charter-type schools have a higher passing rate in the analyzed subjects, especially mathematics, where a notable difference in passing rates can be seen compared to the District-type schools (Table 2).

The foregoing can also be affected by the number of students, because in the schools where there is a population bigger than 2,000 students there is an alarming decrease in the number of passing scores compared to schools with fewer students. (Table 3).

In addition, reviewing the percentages of approval of the subjects of mathematics and reading it is shown that for a higher percentage of students it is easier to approve reading than mathematics, regardless of the type of school, grade, or any other variable.

Something surprising is that the lower the Spending rates (per student) the higher the passing rates, which could certainly be something good for the parents/tutors, since it is normally thought that the more you spend the more you will learn. (Table 4)

In conclusion, it could be affirmed that the best decision for children to study would be in a Charter school, with a population of no more than 2000 students and that parents do not have to worry about getting too much debt to be able to enroll the student in a school that is too expensive for them.

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Challenge 4

	Number of unique schools	Total students	Total budget	Average math score	Average reading score	% passing math	% passing reading	% overall passing
0	15	39,170	\$24,649,428.00	78.985371	81.87784	74.980853	85.805463	65.172326

Table 1

	Average math score	Average reading score	% passing math	% passing reading	% overall passing
School type					
Charter	83.473852	83.896421	93.620830	96.586489	90.432244
District	76.956733	80.966636	66.548453	80.799062	53.672208

Table 2

	Average math score	Average reading score	% passing math	% passing reading	% overall passing
School Size					
Small (<1000)	83.821598	83.929843	93.550225	96.099437	89.883853
Medium (1000-2000)	83.374684	83.864438	93.599695	96.790680	90.621535
Large (2000-5000)	77.746417	81.344493	69.963361	82.766634	58.286003

Table 3

	Average math score	Average reading score	% passing math	% passing reading	% overall passing
Spending Ranges (Per Student)					
<\$585	83.455399	83.933814	93.460096	96.610877	90.369459
\$585-630	81.899826	83.155286	87.133538	92.718205	81.418596
\$630-645	78.518855	81.624473	73.484209	84.391793	62.857656
\$645-680	76.997210	81.027843	66.164813	81.133951	53.526855

Table 4