PyCitySchools Report

Analysis

* The 15 schools sampled in this dataset proved that students tested better in reading and had also passed at a higher rate.
* Cabrera High School was the highest performing in the sample by achieving the highest percent overall passing rate.
* Rodriguez High School was the lowest performing in the sample by achieving the lowest percent overall passing rate.
* There was no pattern in the average testing scores for reading and math in terms of difference in grade level. (9th,10th,11th,12th)
* As spending decreased per student, there was an increase in the percentage of students passing overall.
* Schools larger than 2000 tested at a lower success rate than that of schools with less students.
* Charter schools tested significantly better than District schools. (Percent overall passing was approximately 47% higher than District)

Conclusion

1. The first most noticeable variable is that Charter schools are significantly more effective at teaching math and reading in both scores and passing rates. Math scores were on average more than 6% higher and reading scores were on average 3% higher. This could be a result of only one of the eight sampled Charter schools having a student population of over 2000. It is important to note that all seven of the District schools in this sample had student populations over 2000. It has been proven consistently that schools have more success when they are not stretched thin and can focus on less students. This is also confirmed with this dataset.
2. Based off the scores by school spending data, we can conclude that the more money spent per student does result in a lower passing rate. When students fell in the 585 dollar or lower range, they were 90.37% to pass overall. This figure drops to 53.53% to pass overall when each student is budgets 635 to 680 dollars. The passing rate drops significantly more in rates of passing math in comparison to reading. The percentage passing math went from 93% to 66% where the percentage passing reading went from 96% to 81%. Both percentage drops are alarming, but the math passing rates indicate there is a significant issue with the allocation of funds for that department.