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# Correlation of Test Scores to School Population

When looking at the top 5 & bottom 5 performing schools when it comes to overall passing scores; we can draw a couple different conclusions.

To start, it’s clear that charter schools have both a higher “Average Score” & “Passing Score”. We could say that it’s due to them having a larger budget, but when looking at our data frames we can find evidence that proves otherwise. On average our top 5 performing schools are charter schools with a *‘budget per capita* of $606. Inversely out bottom 5 performing schools are all district schools with a *‘budget per capita* of $647. So, what would the really cause be of charter schools having better results than our district schools if not per student spending. We can begin looking at class size as our quantitate factor; with large schools with a student population of over 2000 students had an average passing score of merely 58%. Notedly these are all district schools apart from “Wilson Highschool” which is a charter school with a population of 2283 students; this school has a passing score of 90.58% making this a clear outlier. Smaller schools all seem to correlate having a much higher overall score in this sense, and while we don’t have much qualitative data to prove this, we can assume that due to having these smaller class sizes, teachers are not spread so thin and student at these schools; charter and district are much more attended to and have better access to different support groups within their schools.

So, it’s clear to see that budget within these schools; while always an attributing factor, is not the factor when it comes to test scores, instead we can start to see that class size is our biggest contributing factor. And by doing more research we are surely able to find more evidence to prove this hypothesis. Let the big take away from this analysis be that money isn’t always a make or break of not just ourselves but also our students.