A screenshot of a computer screen

Description automatically generated

A screenshot of a score

Description automatically generated

A screenshot of a graph

Description automatically generated

A screenshot of a black screen

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A screenshot of a computer

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A screenshot of a computer screen

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A table with numbers and letters

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A screenshot of a computer

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Raw notes:

- District Schools have lower overall passing rate; bottom 5 overall passing rate schools are Districts

- Charter Schools have the best overall passing rate; top 5 overall passing rate schools are Charter

- Charter average math scores are 83.5 - District average math scores 77 = 6.5

- Charter passing math (93.6) - District passing math (66.5) = 27.1

- Average scores differentiation between district and charter is less than passing rates indicating bipolar distribution / more variation in district schools but I think we learn more tooling for that in Module 5 :)

- Large (2k-5k) schools have lower passing rates and lower math scores; average reading score not too different

- All District schools are large; 1 charter school is large - it's scores and passing rates are aligned with overall charter rates

- higher capita per student schools have lower passing rates

- Only District schools are in the largest bucket; only 1 charter school is in the 2nd highest bucket and it's scores and passing rates are aligned with overall charter values, only 1 district school in the bottom 2 buckets and it's scores and passing rates are aligned with overall district values

- Average math scores vary across schools (max (83.8) to min (76.6) difference is 7.2 points) but remain relatively consistent across grade levels within a given school (varying 0.3 to 2.2 points across grades within a school). Overall math passing rates vary across schools (max (97.3%) to min (65.7%) difference is 31.6%)

- Overall not much variation in average reading scores across schools and grade levels (80.3% - 84.7%) and even less within a school (0.3% to 1.6%)

- average math scores vary more across schools and grade levels (75.95% to 85%) but within a school there is not much variation across grade levels (0.3% to 2.2%)

x\_graders.groupby(["school\_name"])["Student ID"].count() and looking at population changes indicate similar % decrease from 9th to 12th grade (avg 31% decrease with 0.027 std dev)