

TITLE - WrittenReport_Homework_Module4_MikeStrati_230627

TASK - Written Report (15 points)

To receive all points, the written report presents a cohesive written analysis that:

1A - Summarizes the analysis (5 points)

1B - Draws two correct conclusions or comparisons from the calculations (10 points)

TASK 1A - Summarize the analysis

Charter Schools outperform District Schools by every metric.

(Fig 1. Scores by School Type)

	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

Larger Size Schools significantly underperform in every metric compared to Medium Size and Large Size Schools. (Fig 2. Scores by School Size)

	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

'Scores by School Spending' DataSet indicates that Lower Spending Ranges Per Student equates to Higher Test Scores. As well, Higher Spending Ranges Per Student equates to Lower Test Scores. (Fig 3. Scores by School Spending)

	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

TASK 1B - Draws two correct conclusions or comparisons from the calculations

Conclusion 1 - COMPARING PASSING-PERCENTAGE TO BUDGET

Cabrera High School has the Highest Overall-Passing-Percentage at: 91.334769 %

Cabrera High School has the Third Lowest Per-Student-Budget at: \$582.00

Rodriguez High School has the Lowest Overall-Passing-Percentage at: 52.988247 %

Rodriguez High School has the Highest Per-Student-Budget at: \$655.00

Conclusion: Per-Student-Budget is no correlation to Overall-Passing-Percentage and in all but in the case of Thomas High School, Per-Student-Budget is often a direct indicator of lower Overall-Passing-Percentage.

(Fig 4. Below Chart sorted by Overall-Passing-Percentage, Lowest-to-Highest)

	A	B	C	D	E	J
1	School Name	School Type	Total Students	Total School Budget	Per Student Budget	% Overall Passing
2	Rodriguez High School	District	3999	\$2,547,363.00	\$637.00	52.988247
3	Figueroa High School	District	2949	\$1,884,411.00	\$639.00	53.204476
4	Huang High School	District	2917	\$1,910,635.00	\$655.00	53.513884
5	Hernandez High School	District	4635	\$3,022,020.00	\$652.00	53.527508
6	Johnson High School	District	4761	\$3,094,650.00	\$650.00	53.539172
7	Ford High School	District	2739	\$1,763,916.00	\$644.00	54.289887
8	Bailey High School	District	4976	\$3,124,928.00	\$628.00	54.642283
9	Holden High School	Charter	427	\$248,087.00	\$581.00	89.227166
10	Shelton High School	Charter	1761	\$1,056,600.00	\$600.00	89.892107
11	Wright High School	Charter	1800	\$1,049,400.00	\$583.00	90.333333
12	Pena High School	Charter	962	\$585,858.00	\$609.00	90.540541
13	Wilson High School	Charter	2283	\$1,319,574.00	\$578.00	90.582567
14	Griffin High School	Charter	1468	\$917,500.00	\$625.00	90.599455
15	Thomas High School	Charter	1635	\$1,043,130.00	\$638.00	90.948012
16	Cabrera High School	Charter	1858	\$1,081,356.00	\$582.00	91.334769

(Fig 5. Below Chart sorted by Per-Student-Budget, Lowest-to-Highest)

	A	B	C	D	E	J
1	School Name	School Type	Total Students	Total School Budget	Per Student Budget	% Overall Passing
2	Wilson High School	Charter	2283	\$1,319,574.00	\$578.00	90.582567
3	Holden High School	Charter	427	\$248,087.00	\$581.00	89.227166
4	Cabrera High School	Charter	1858	\$1,081,356.00	\$582.00	91.334769
5	Wright High School	Charter	1800	\$1,049,400.00	\$583.00	90.333333
6	Shelton High School	Charter	1761	\$1,056,600.00	\$600.00	89.892107
7	Pena High School	Charter	962	\$585,858.00	\$609.00	90.540541
8	Griffin High School	Charter	1468	\$917,500.00	\$625.00	90.599455
9	Bailey High School	District	4976	\$3,124,928.00	\$628.00	54.642283
10	Rodriguez High School	District	3999	\$2,547,363.00	\$637.00	52.988247
11	Thomas High School	Charter	1635	\$1,043,130.00	\$638.00	90.948012
12	Figueroa High School	District	2949	\$1,884,411.00	\$639.00	53.204476
13	Ford High School	District	2739	\$1,763,916.00	\$644.00	54.289887
14	Johnson High School	District	4761	\$3,094,650.00	\$650.00	53.539172
15	Hernandez High School	District	4635	\$3,022,020.00	\$652.00	53.527508
16	Huang High School	District	2917	\$1,910,635.00	\$655.00	53.513884

Conclusion 2 - COMPARING TOTAL NUMBER OF STUDENTS

When sorting the School Summary DataSet for Total Number of Students, the 7 Schools where the Percentage of Overall Passing was less-than-60-Percent (I.E. Failing) also coincided with the Total Number of Students.

Conclusion: Better put, the 7 Schools with the Highest Total Number of Students Attending all had their Percentage of Overall Passing at less-than-60-Percent (I.E. Failing).

(Fig 6. Below Chart sorted by Total Students)

	A	B	C	D	E	J
1	School Name	School Type	Total Students	Total School Budget	Per Student Budget	% Overall Passing
2	Bailey High School	District	4976	\$3,124,928.00	\$628.00	54.642283
3	Johnson High School	District	4761	\$3,094,650.00	\$650.00	53.539172
4	Hernandez High School	District	4635	\$3,022,020.00	\$652.00	53.527508
5	Rodriguez High School	District	3999	\$2,547,363.00	\$637.00	52.988247
6	Figueroa High School	District	2949	\$1,884,411.00	\$639.00	53.204476
7	Huang High School	District	2917	\$1,910,635.00	\$655.00	53.513884
8	Ford High School	District	2739	\$1,763,916.00	\$644.00	54.289887
9	Wilson High School	Charter	2283	\$1,319,574.00	\$578.00	90.582567
10	Cabrera High School	Charter	1858	\$1,081,356.00	\$582.00	91.334769
11	Wright High School	Charter	1800	\$1,049,400.00	\$583.00	90.333333
12	Shelton High School	Charter	1761	\$1,056,600.00	\$600.00	89.892107
13	Thomas High School	Charter	1635	\$1,043,130.00	\$638.00	90.948012
14	Griffin High School	Charter	1468	\$917,500.00	\$625.00	90.599455
15	Pena High School	Charter	962	\$585,858.00	\$609.00	90.540541
16	Holden High School	Charter	427	\$248,087.00	\$581.00	89.227166

Conclusion 3 - COMPARING MATH SCORES BY GRADE

Conclusion: Holden High School has 2-out-of-4 Highest Math Scores by Grade (Grade 9th & Grade 11th). Other Districts can look to their Math Curriculum for advice.
(Fig 7. Below Chart sorted Alphabetically by School Name)

1	School	9th	10th	11th	12th
2	Bailey High School	77.083676	76.996772	77.515588	76.492218
3	Cabrera High School	83.094697	83.154506	82.76556	83.277487
4	Figueroa High School	76.403037	76.539974	76.884344	77.151369
5	Ford High School	77.361345	77.672316	76.918058	76.179963
6	Griffin High School	82.04401	84.229064	83.842105	83.356164
7	Hernandez High School	77.438495	77.337408	77.136029	77.186567
8	Holden High School	83.787402	83.429825	85	82.855422
9	Huang High School	77.027251	75.908735	76.446602	77.225641
10	Johnson High School	77.187857	76.691117	77.491653	76.863248
11	Pena High School	83.625455	83.372	84.328125	84.121547
12	Rodriguez High School	76.859966	76.6125	76.395626	77.690748
13	Shelton High School	83.420755	82.917411	83.383495	83.778976
14	Thomas High School	83.590022	83.087886	83.498795	83.497041
15	Wilson High School	83.085578	83.724422	83.195326	83.035794
16	Wright High School	83.264706	84.010288	83.836782	83.644986

Conclusion 4 - COMPARING READING SCORES BY GRADE

Conclusion: Ford High School shares 2-out-of-4 of the Lowest Reading Scores by Grade (Grade 9th & Grade 11th). Their Reading Curriculum could use examining.

Conclusion: Shelton High School has 2-out-of-4 Highest Reading Scores by Grade (Grade 9th & Grade 11th). Other Districts can look to their Reading Curriculum for advice.

(Fig 8. Below Chart sorted Alphabetically by School Name)

1	School	9th	10th	11th	12th
2	Bailey High School	81.303155	80.907183	80.945643	80.912451
3	Cabrera High School	83.676136	84.253219	83.788382	84.287958
4	Figueroa High School	81.198598	81.408912	80.640339	81.384863
5	Ford High School	80.632653	81.262712	80.403642	80.662338
6	Griffin High School	83.369193	83.706897	84.288089	84.013699
7	Hernandez High School	80.86686	80.660147	81.39614	80.857143
8	Holden High School	83.677165	83.324561	83.815534	84.698795
9	Huang High School	81.290284	81.512386	81.417476	80.305983
10	Johnson High School	81.260714	80.773431	80.616027	81.227564
11	Pena High School	83.807273	83.612	84.335938	84.59116
12	Rodriguez High School	80.993127	80.629808	80.864811	80.376426
13	Shelton High School	84.122642	83.441964	84.373786	82.781671
14	Thomas High School	83.72885	84.254157	83.585542	83.831361
15	Wilson High School	83.939778	84.021452	83.764608	84.317673
16	Wright High School	83.833333	83.812757	84.156322	84.073171
