

OPTIONAL STANDARDIZED TESTING

ABHAY AANABATHULA

PROBLEM STATEMENT

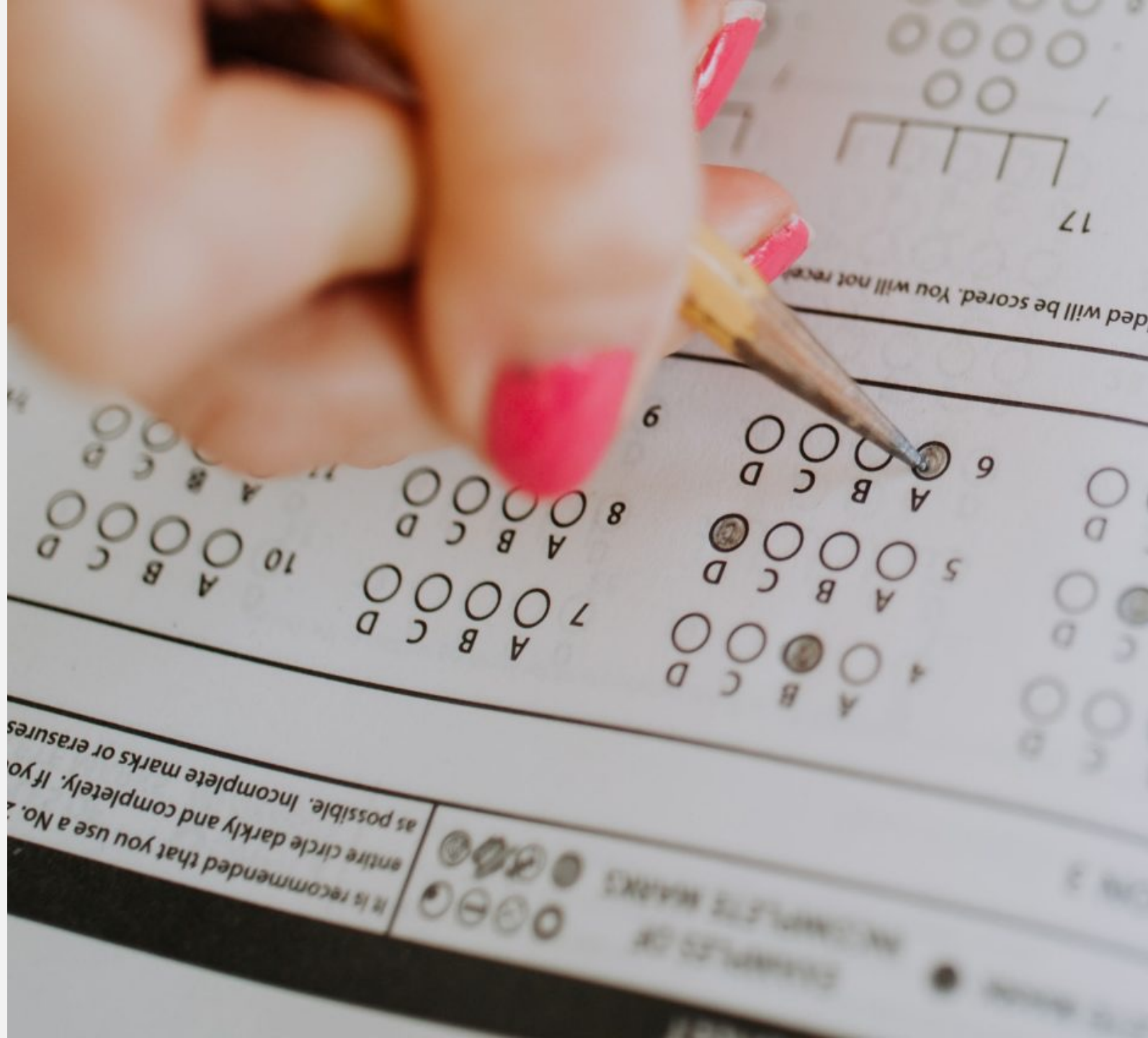
Standardized testing may not be a fair assessment for intelligence of students, as it has been noted that those of lower socioeconomic status tend to score lower on these exams. It would be advised that colleges adopt an optional testing policy to mitigate these unfair circumstances.

BACKGROUND

- The SAT and ACT are standardized tests
- These exams are required for admission
- The SAT has two sections while the ACT has four

THE PROBLEM

- Those of lower socioeconomic background are exposed to stress at greater rates
- Less resources
- Socioeconomic status, race, and ethnicity



OUTSIDE KNOWLEDGE

- Low SES correlates to lower educational attainment
- Race and ethnicity often determine a person's socioeconomic status
- Communities are segregated by SES, race, and ethnicity
- African American, American Indian/Alaska Native, Hispanic, Pacific Islander and Native Hawaiian families are more likely than Caucasian and Asian families to live in poverty

POVERTY IN THE UNITED STATES

- Poverty Rates:

- New Hampshire – 7.3%

- Utah – 8.9%

- Maryland – 9.0%

- New Mexico – 18.2%

- Louisiana - 19.0%

- Mississippi – 19.6%

Lowest rates

Highest rates



SAT SCORES BY STATE 2017

	State	Participation	Evidence-Based Reading and Writing	Math	Total
0	Alabama	5%	593	572	1165
1	Alaska	38%	547	533	1080
2	Arizona	30%	563	553	1116
3	Arkansas	3%	614	594	1208
4	California	53%	531	524	1055

SAT SCORES BY STATE 2018

	State	Participation	Evidence-Based Reading and Writing	Math	Total
0	Alabama	6%	595	571	1166
1	Alaska	43%	562	544	1106
2	Arizona	29%	577	572	1149
3	Arkansas	5%	592	576	1169
4	California	60%	540	536	1076

RACE/ETHNICITY OF TEST TAKERS 2017

	Race/ethnicity	Total	Evidence-Based Reading and Writing	Math
0	White	1118	565	553
1	Black	941	479	462
2	Hispanic	990	500	489
3	Asian	1181	569	612
4	Pacific Islander	986	498	488

RACE/ETHNICITY OF TEST TAKERS 2018

	Race/ethnicity	Total	Evidence-Based Reading and Writing	Math
0	White	1123	566	557
1	Black	946	483	463
2	Hispanic	990	501	489
3	Asian	1223	588	635
4	Pacific Islander	986	498	489

STATES WITH LOWEST PARTICIPATION



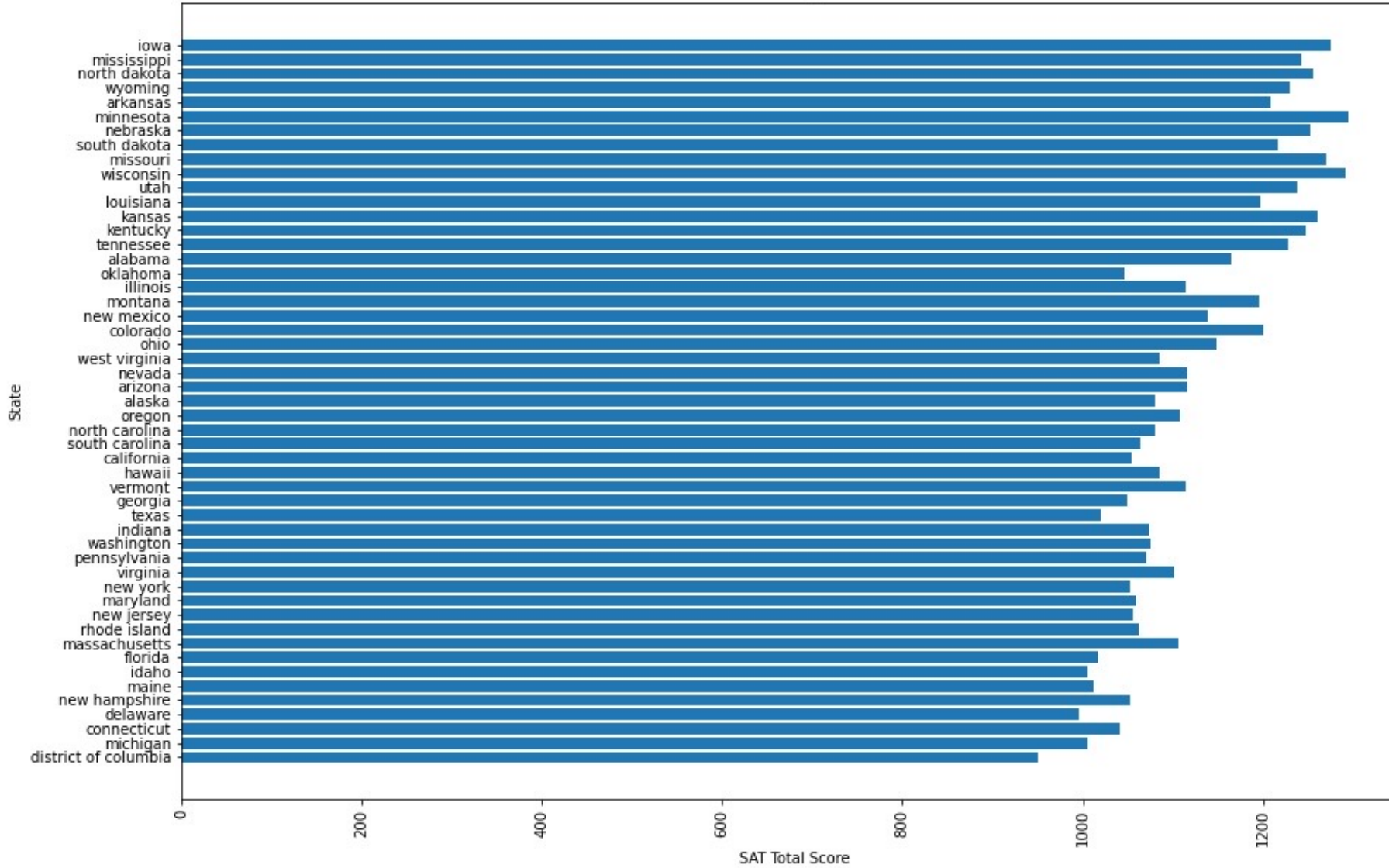
State	Participation	Reading_Writing	Math	Total
north dakota	0.02	635	621	1256
mississippi	0.02	634	607	1242
iowa	0.02	641	635	1275
missouri	0.03	640	631	1271
utah	0.03	624	614	1238

STATES WITH HIGHEST PARTICIPATION

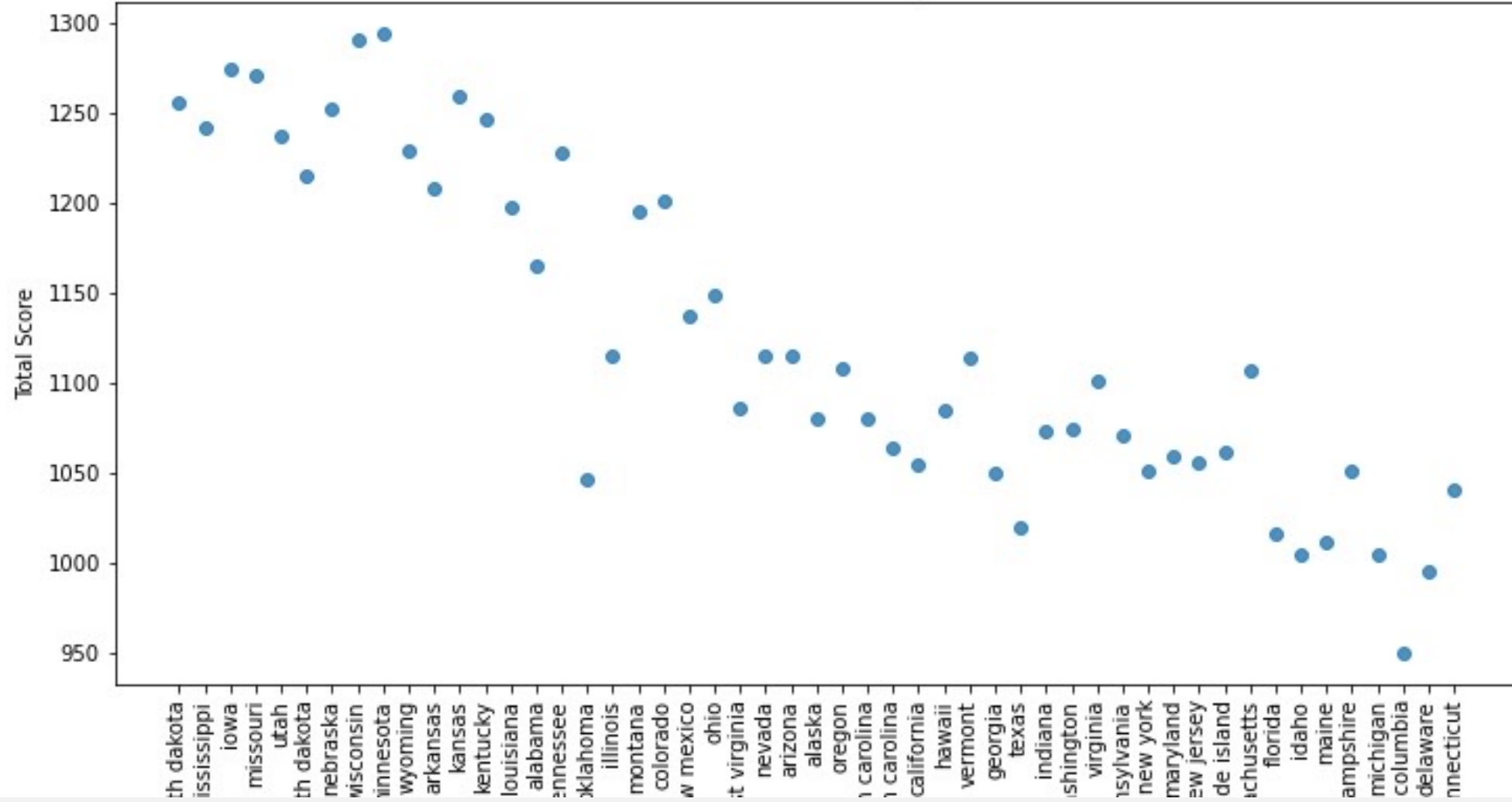
State	Participation	Reading_Writing	Math	Total
district of columbia	1.00	482	468	950
michigan	1.00	509	495	1005
connecticut	1.00	530	512	1041
delaware	1.00	503	492	996
new hampshire	0.96	532	520	1052



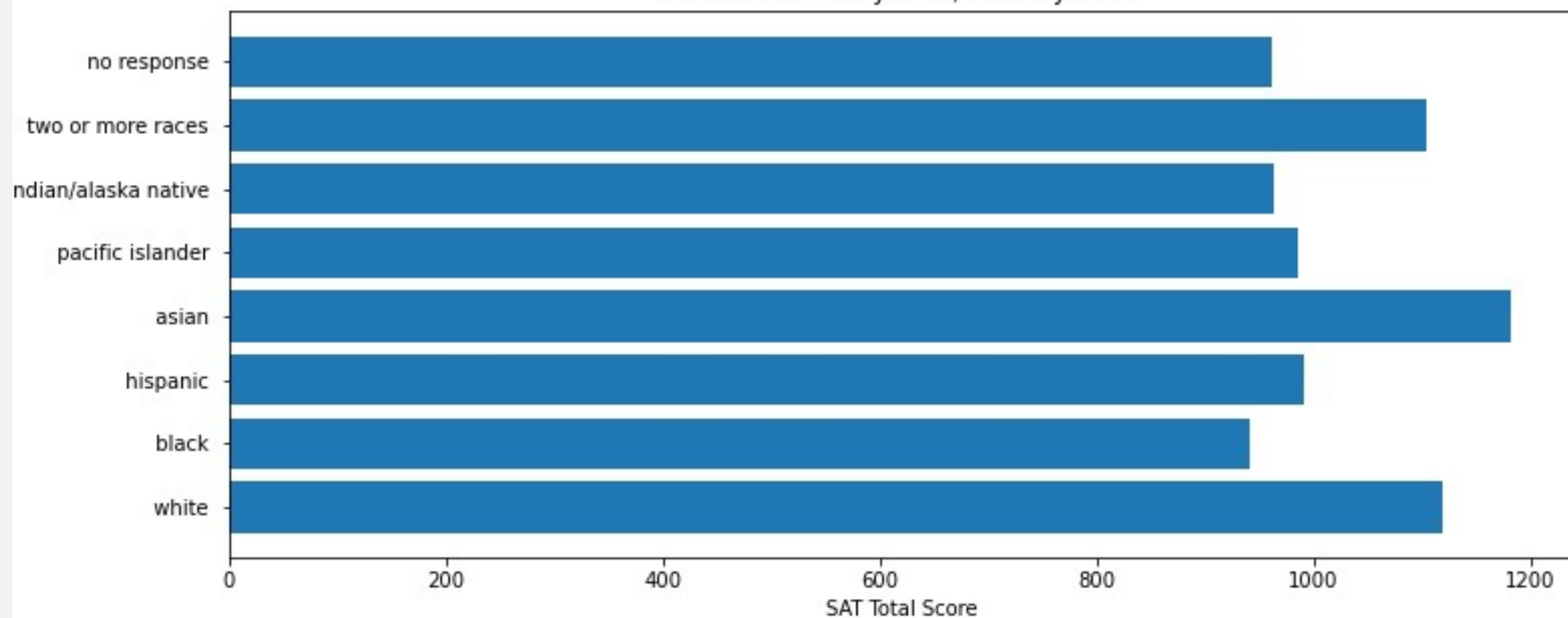
SAT Total Score by State 2017



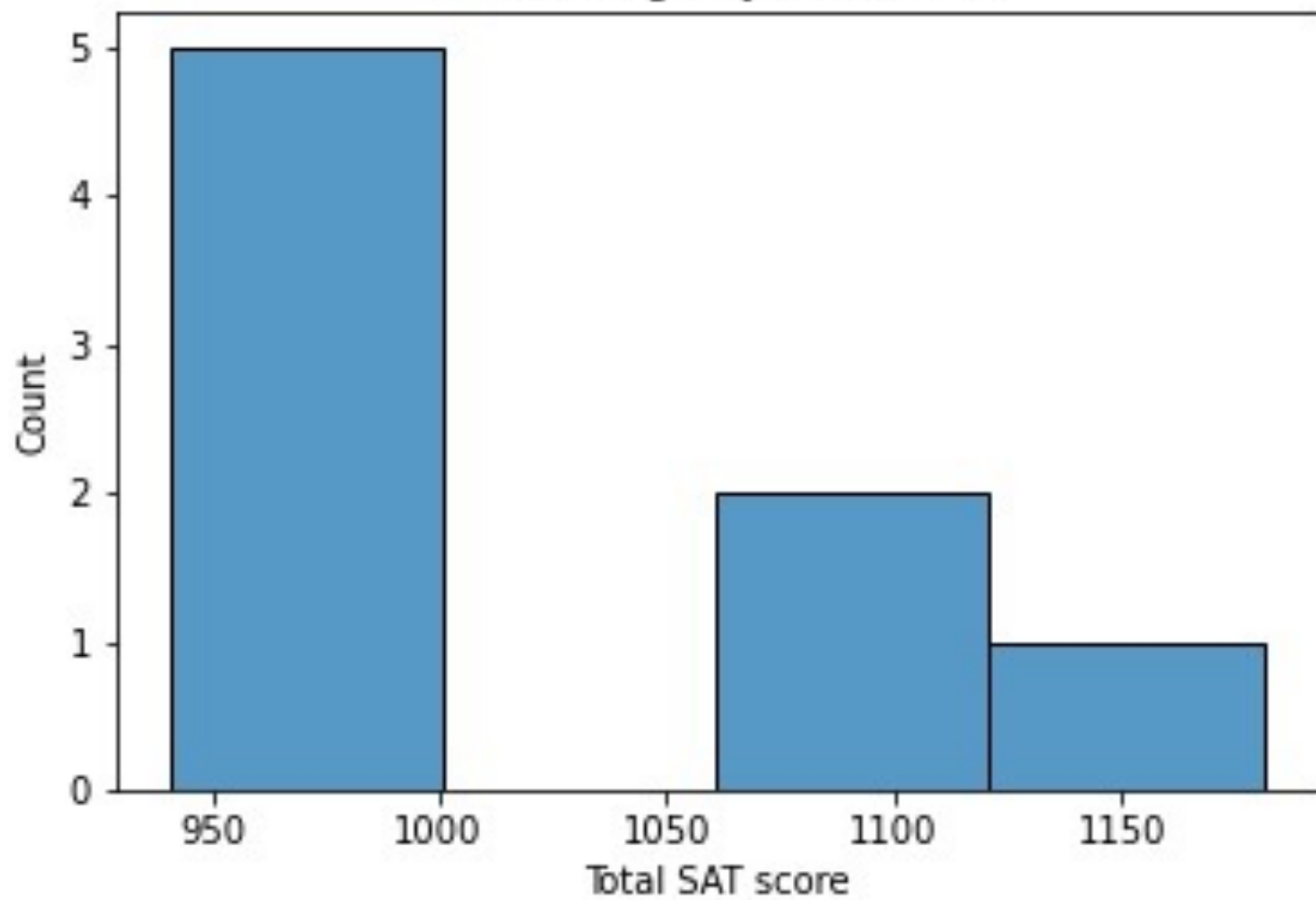
Total Score vs. Participation



SAT Total Score by Race/ethnicity 2017



Score Range by Race 2017



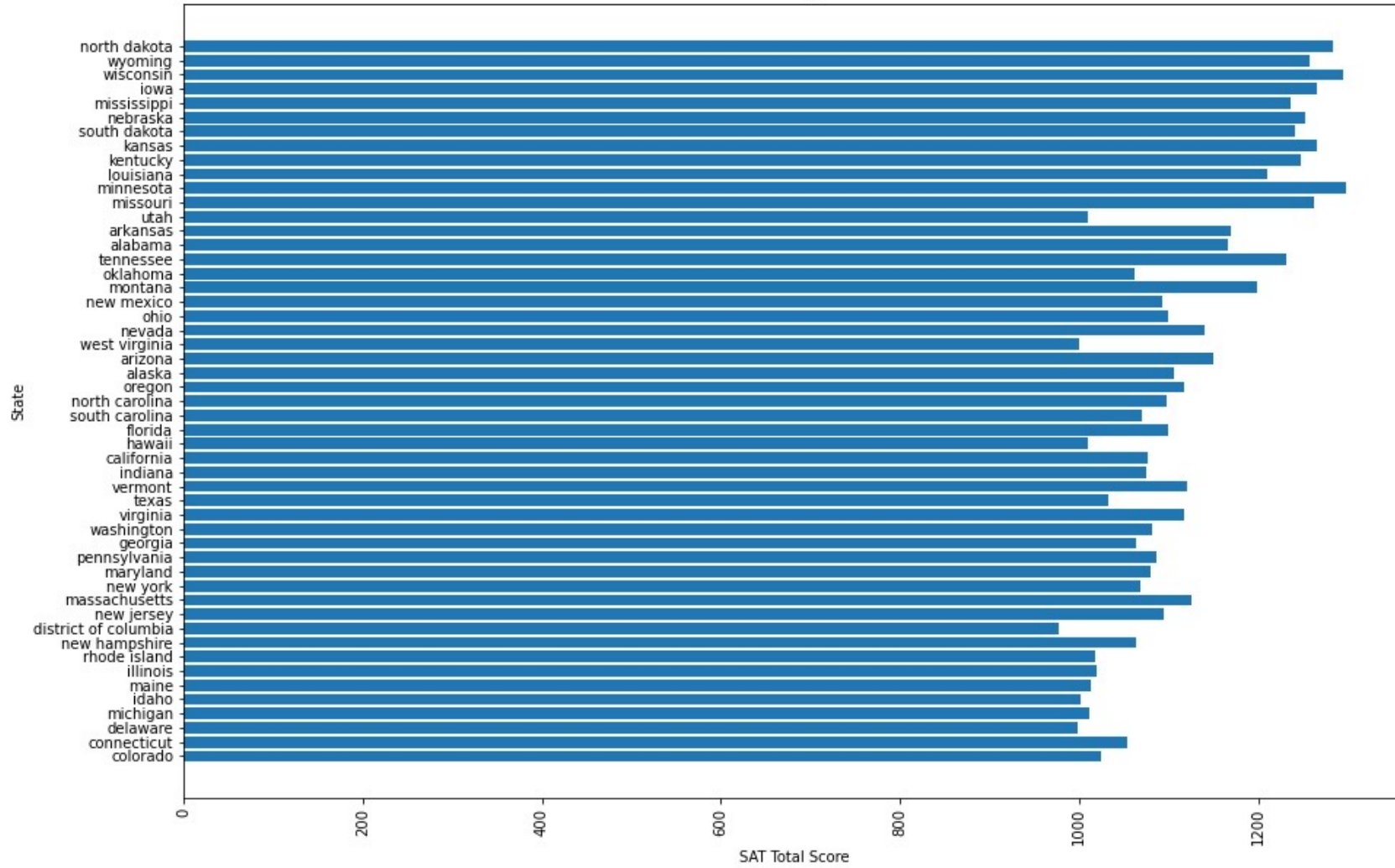
STATES WITH LOWEST PARTICIPATION

State	Participation	Reading_Writing	Math	Total
north dakota	0.02	640	643	1283
wyoming	0.03	633	625	1257
south dakota	0.03	622	618	1240
nebraska	0.03	629	623	1252
wisconsin	0.03	641	653	1294

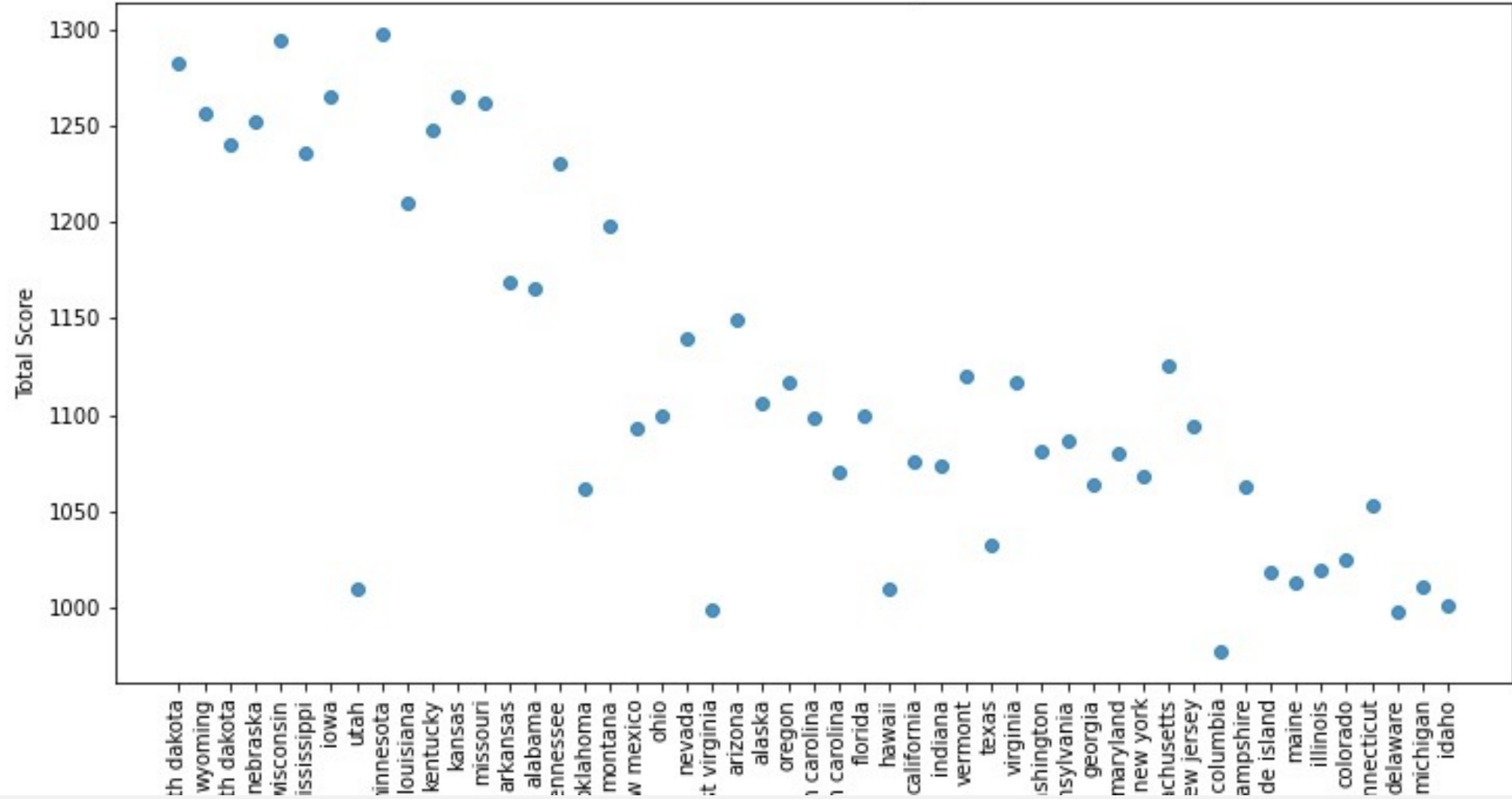
STATES WITH HIGHEST PARTICIPATION

State	Participation	Reading_Writing	Math	Total
colorado	1.0	519	506	1025
connecticut	1.0	535	519	1053
delaware	1.0	505	492	998
michigan	1.0	511	499	1011
idaho	1.0	508	493	1001

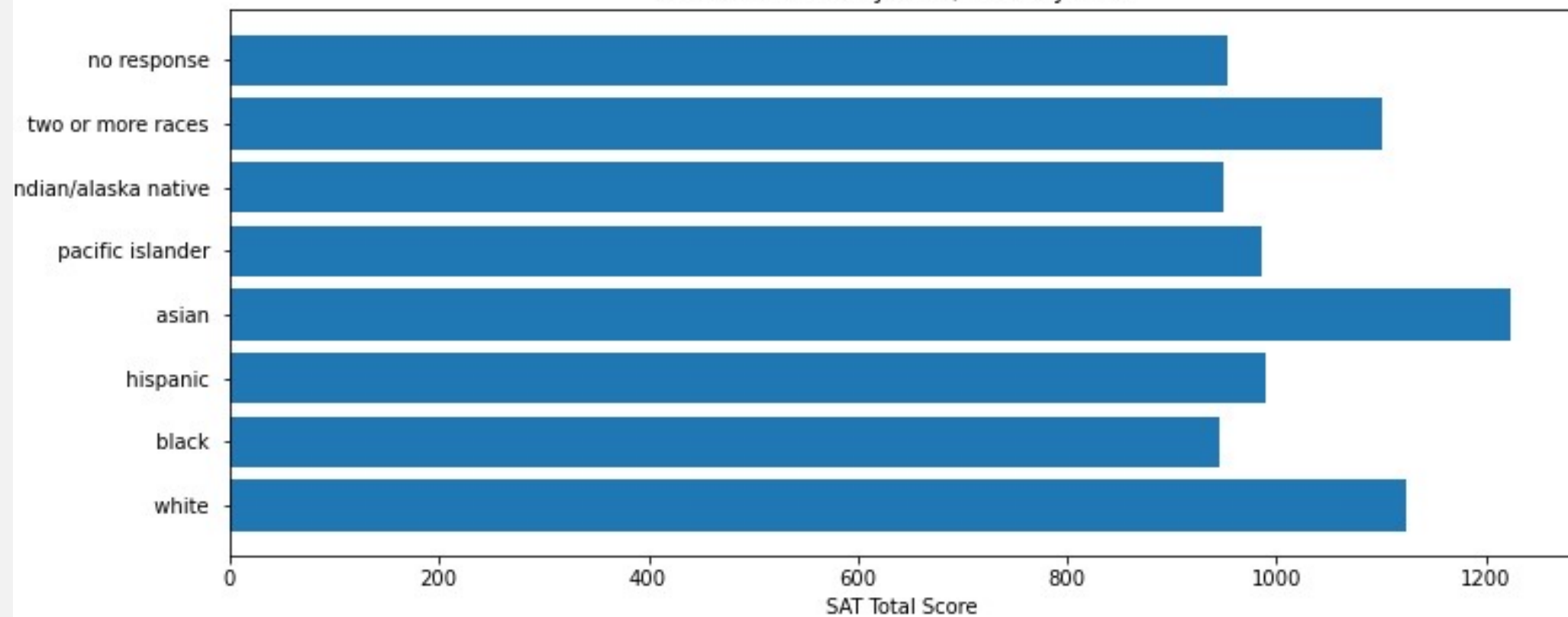
SAT Total Score by State 2018



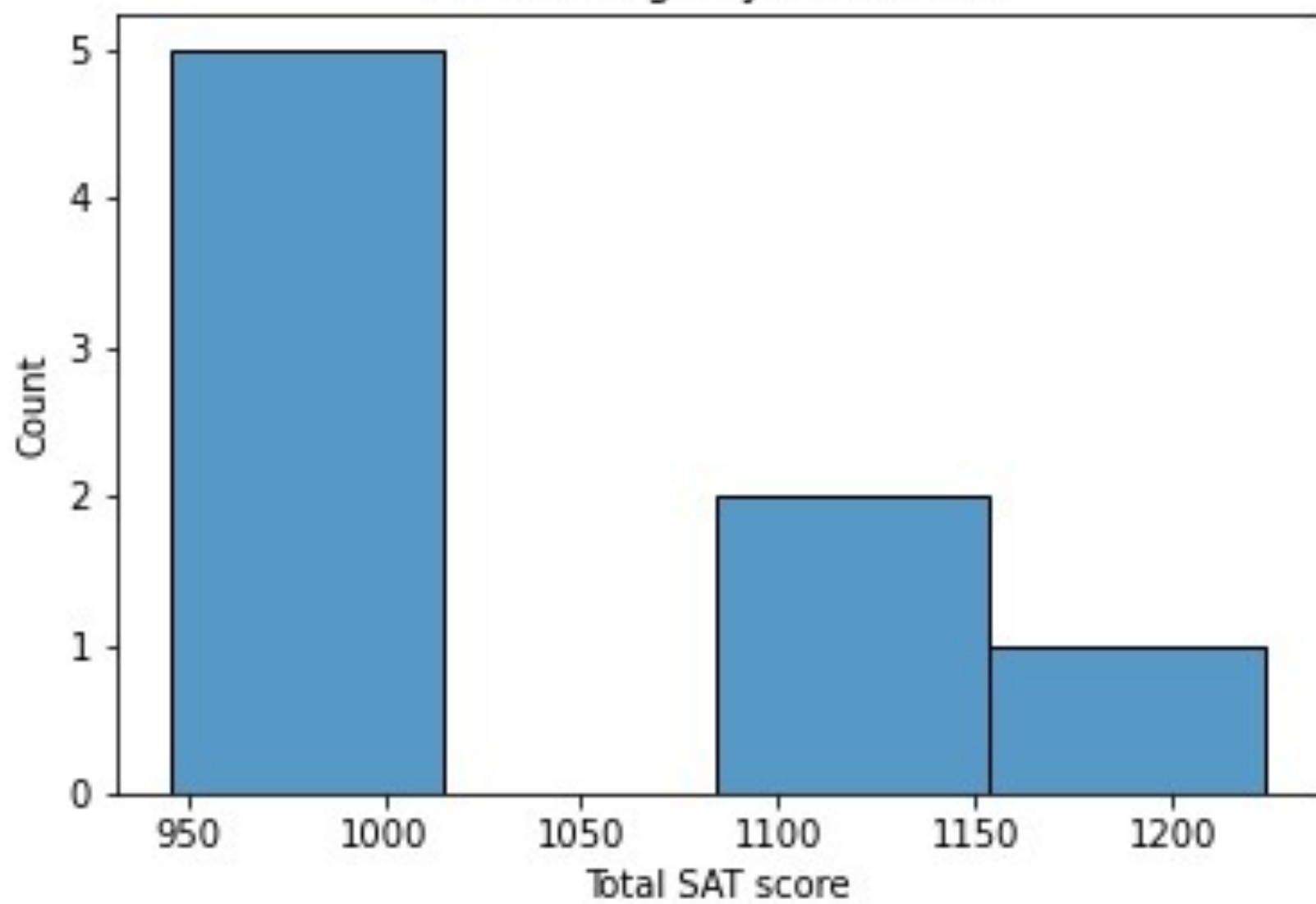
Total Score vs. Participation



SAT Total Score by Race/ethnicity 2018



Score Range by Race 2018



CONCLUSIONS/RECOMMENDATIONS

- Colleges/universities should make standardized test requirement optional
- Can see a large inequality in scores by race
- Further studies:
 - Look at state and county data
 - More demographic data such as average income, state poverty rates, state race demographics