

SAT & ACT Analysis

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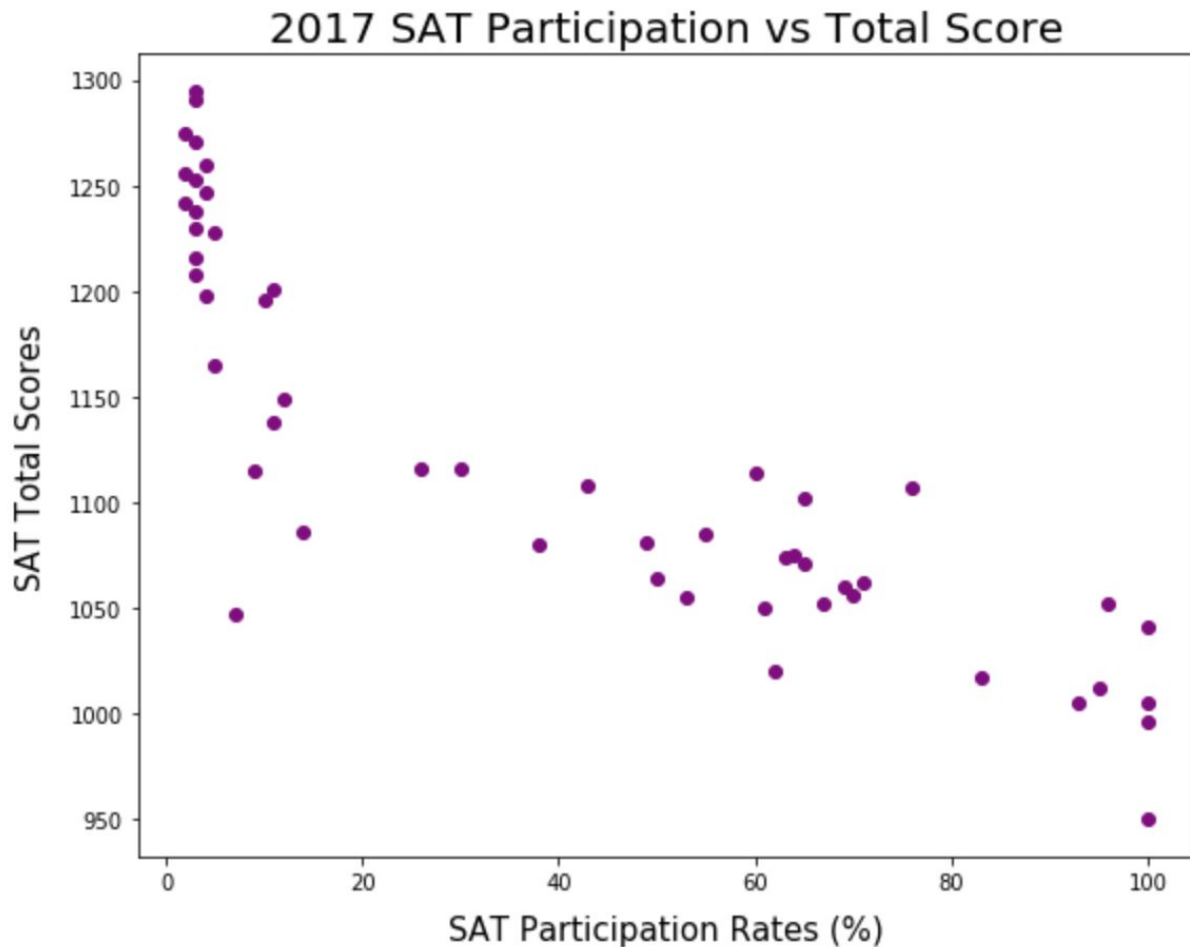
DSI 10 - NYC Tensors

Project 1

Problem Statement

- The learning curve is different for everyone, no matter what
 - Those who grasp new concepts and material immediately
 - Those who remain bewildered despite countless hours of studying
 - Those who fall somewhere in between
- Almost all of the states in the U.S. have adopted the common core standards
- Try to identify any major factors that may have contributed to performances on the SAT and ACT in 2017 and 2018
 - With data collected from College Board and ACT, Inc.





Correlation
- 0.87

*** 2018 SAT
Participation vs
Total Score almost
identical to 2017.**

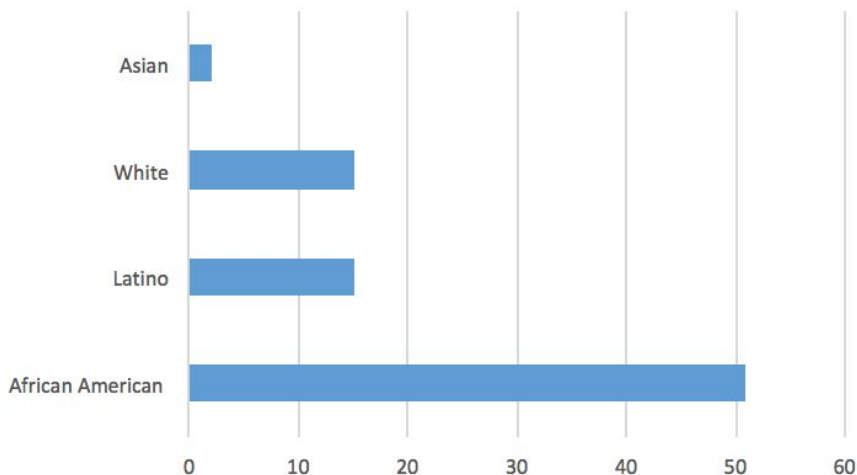
District of Columbia

High Participation & Low Score

Total High School Graduates: ~ 5,300

Total Test Takers: ~ 4,900

Participation Rate (%)



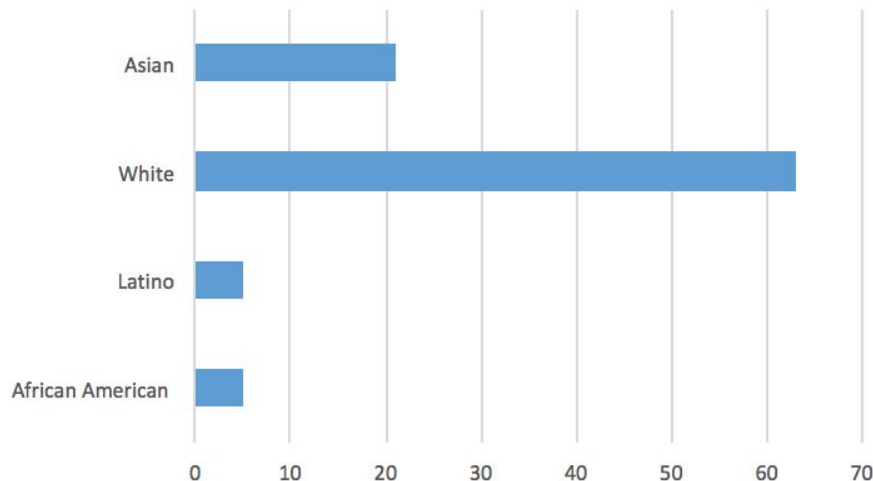
Minnesota

Low Participation & High Score

Total High School Graduates: ~ 61,000

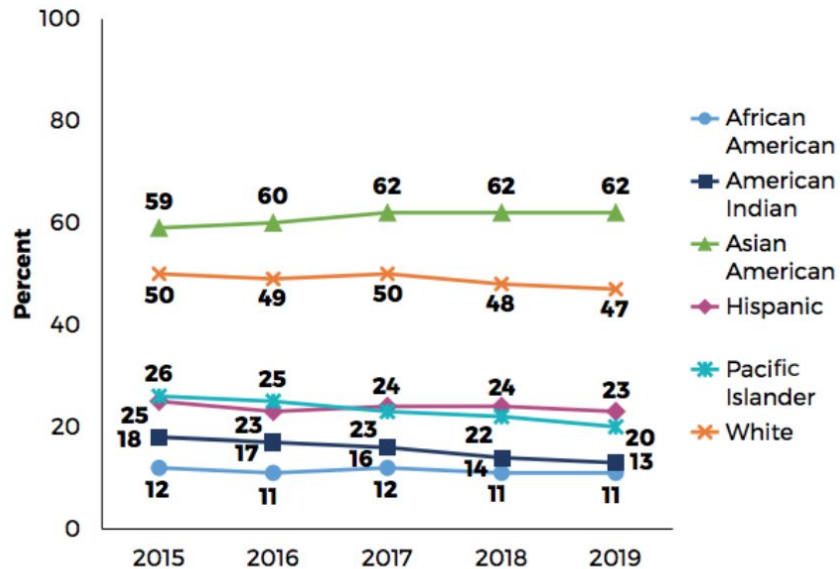
Total Test Takers: ~2,200

Participation Rate (%)



College Readiness

Percent of 2015-2019 ACT-Tested High School Graduates Meeting Three or More Benchmarks by Race/Ethnicity



- Whites and Asians ranked higher than all other races
- Significantly lower for African Americans and Latinos
 - Possibly stems from early education

Grades Above a B

~ 50% of African Americans and Latinos in 7th Grade

~ 40% of African Americans and Latinos 9th Grade

Key Takeaways

- Data shows a strong correlation between participation rate and total score on the SAT
- Racial breakdown gives a further explanation between participation rate and total score
 - Whites and Asians perform higher
 - African Americans and Latinos perform lower



Recommendations

- Many factors contribute to the gap between academic performance and race
 - Finances for SAT/ACT prep classes
 - Accessibility to SAT/ACT resources (at school and outside of school)
 - Academic environment
 - Promoting SAT Participation
 - Hosting the exam on a school day
 - Consulting with Boards of Education to provide SAT Prep classes or electives
 - More flexibility with test waivers
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