College Entrance Exam Participation:

Analysis of 2017 SAT and ACT datasets

Caitlin Streamer

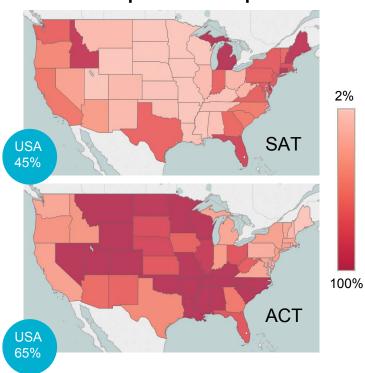
SAT and ACT exams remain the standard for college applications, however, most colleges don't require one over the other

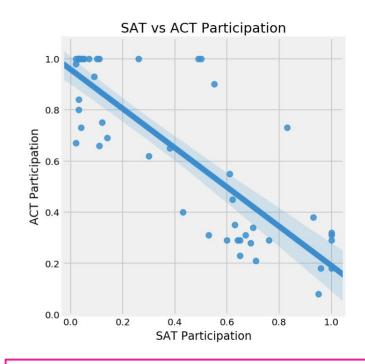
	sachieve more.	The ACT '
Registration Cost	\$60	\$62.50
Total Score	400 - 1600	1 - 36
Subject Score	200 - 800	1 - 36
Subjects	Math Evidence-Based Reading and Writing	Math Science English Reading

The SAT test format was changed in March, 2016 making it more similar to the ACT

SAT participation rates lagged behind the ACT in 2017

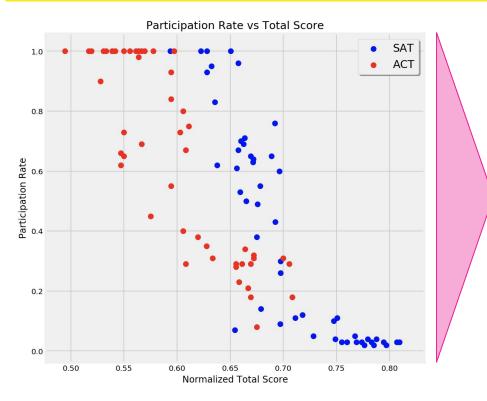






Students are favoring one test over the other in each state.

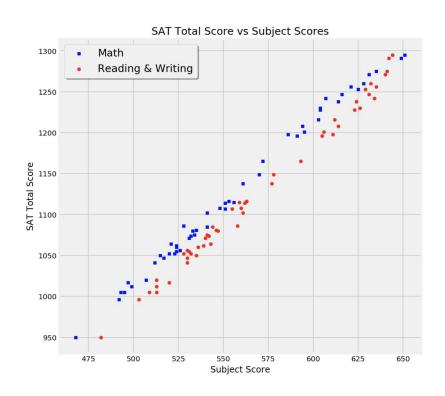
High achieving students are disproportionately represented in low participation state mean exam scores

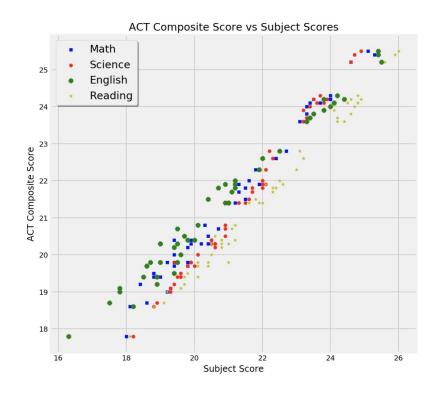


Key Takeaways:

- High participation rates correlate to low mean state score, as the entire student population is represented
- Low participation rates correlate to high mean state score, suggesting that high performers are self-selecting
- ACT total mean scores are lower than the SAT for the same participation rate, suggesting that the ACT is more difficult

Total scores are strongly correlated to subject scores, with higher scores in non-technical subjects





Additional data is needed in order to make recommendations to improve SAT participation rates

Given the limited provided data, it can be concluded that:

- ACT had a higher mean participation rate (65%) than then SAT (45%) in 2017
- Midwestern states had the lowest SAT participation, making them targets for promotional campaigns
- High achieving students are disproportionately represented in states with low participation
- ACT total scores are lower than SAT for the same participation rates
- Subject scores are strongly correlated to total scores

Additional data is needed to explore potential causes and associated solutions to increase SAT participation:

- Individual student test scores
- Contextual information per state or county
- Prior year results
- Definition of eligible participants