The background is a solid dark blue. Overlaid on this are several thin, gold-colored lines that form abstract, angular shapes. These lines radiate from the central text box, extending towards the corners and edges of the frame, creating a sense of dynamic movement and modern design.

# SAT-ACT

## Participation Rate Analysis

# What is SAT and ACT



- USA standardized test
- Use for admittance to a US university

# SAT

- SAT contains 4 section
  - Reading
  - Writing
  - Math
  - Essay (Optional)



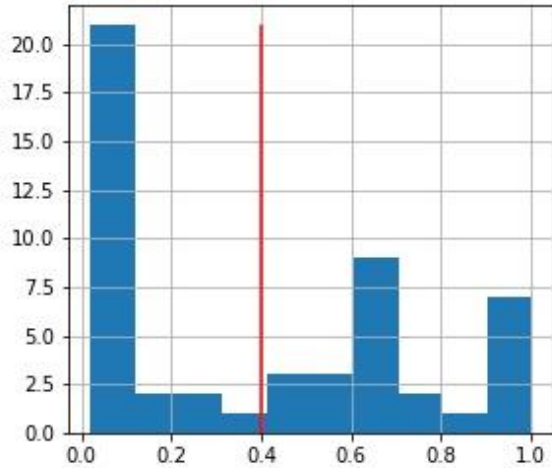
# ACT

- ACT contains 5 section
  - English
  - Math
  - Reading
  - Science
  - Essay (optional)

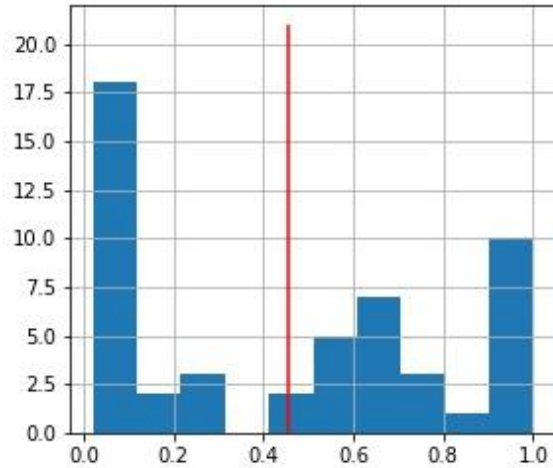


# Sat Participation Rate

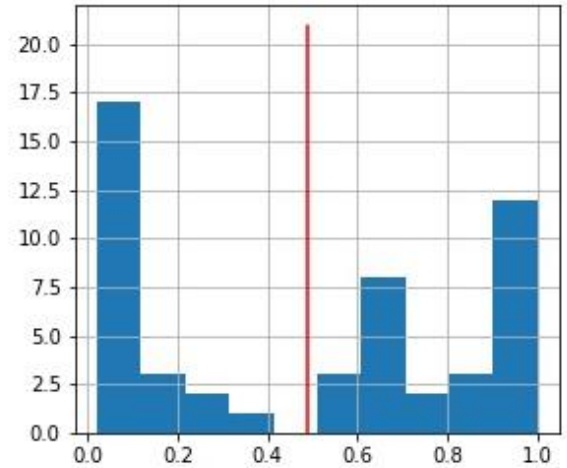
SAT Participation Rate 2017



SAT Participation Rate 2018

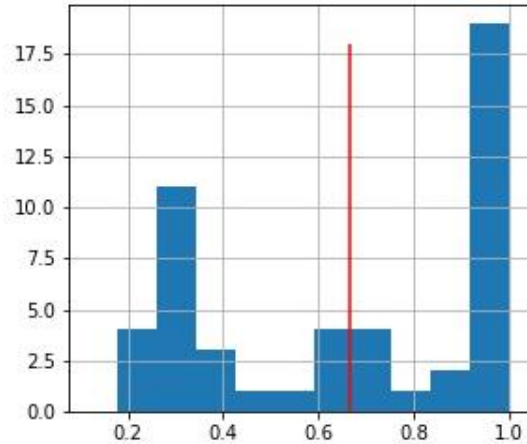


SAT Participation Rate 2019

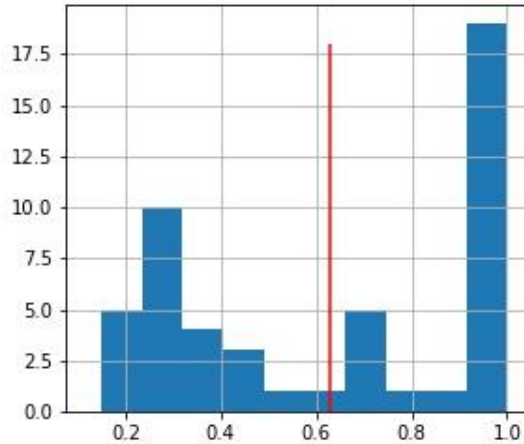


# Act Participation Rate

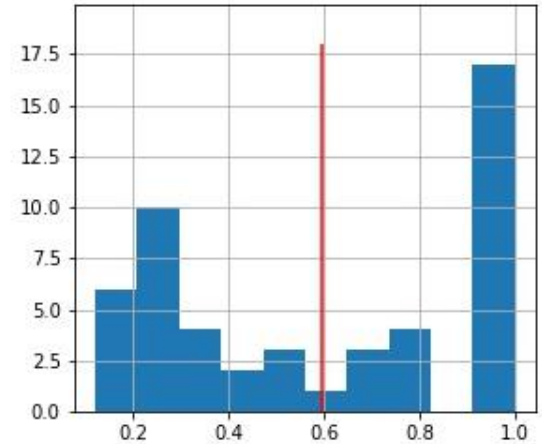
ACT Participation Rate 2017



ACT Participation Rate 2018



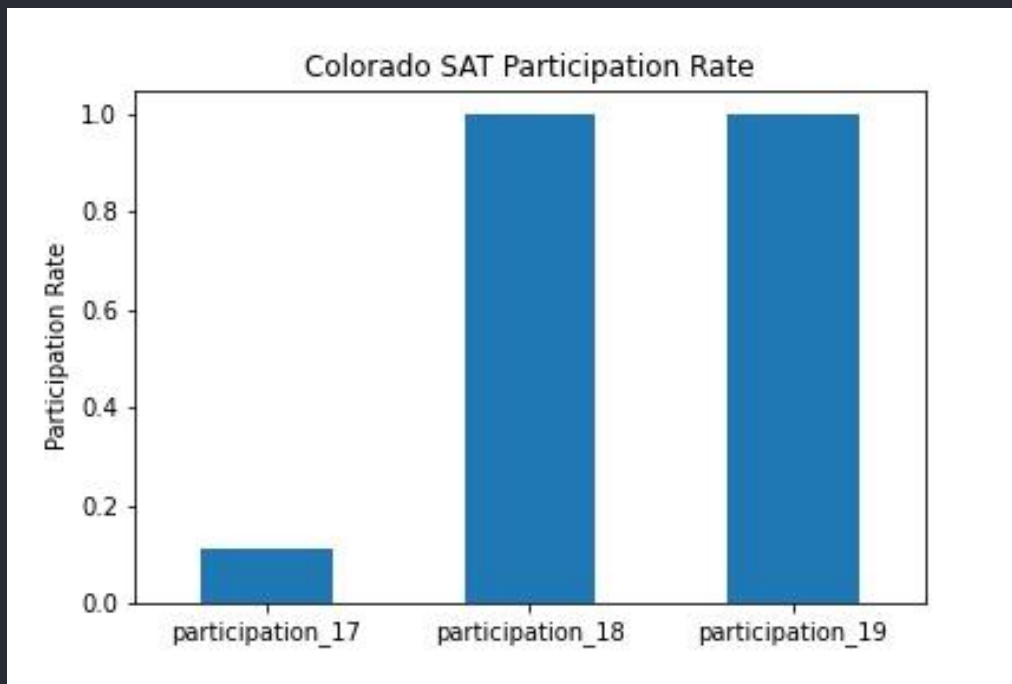
ACT Participation Rate 2019



# Problem Statement

After the new SAT was released in 2016, it was found that some states were more likely to switch the standardized test to the SAT. The purpose of this project is to explore states that have converted to SAT with participation rate at 100% to look for what happens after they have changed.

# Colorado SAT Participation Rate



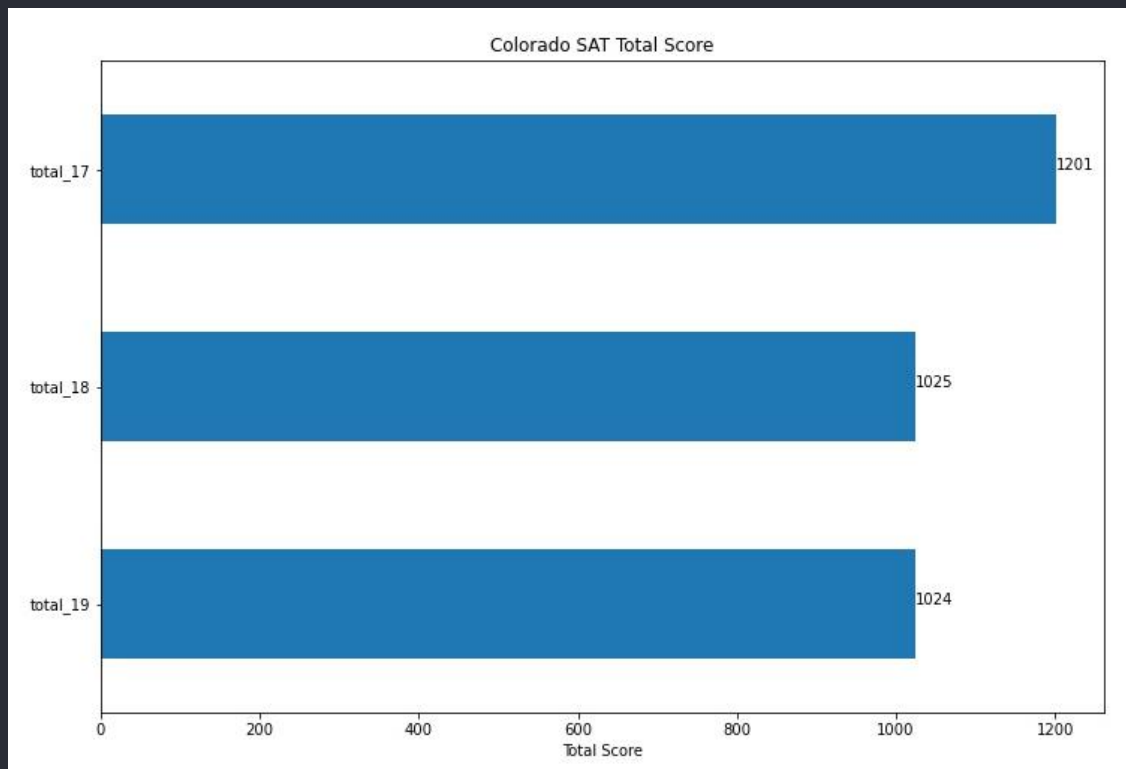


# Colorado

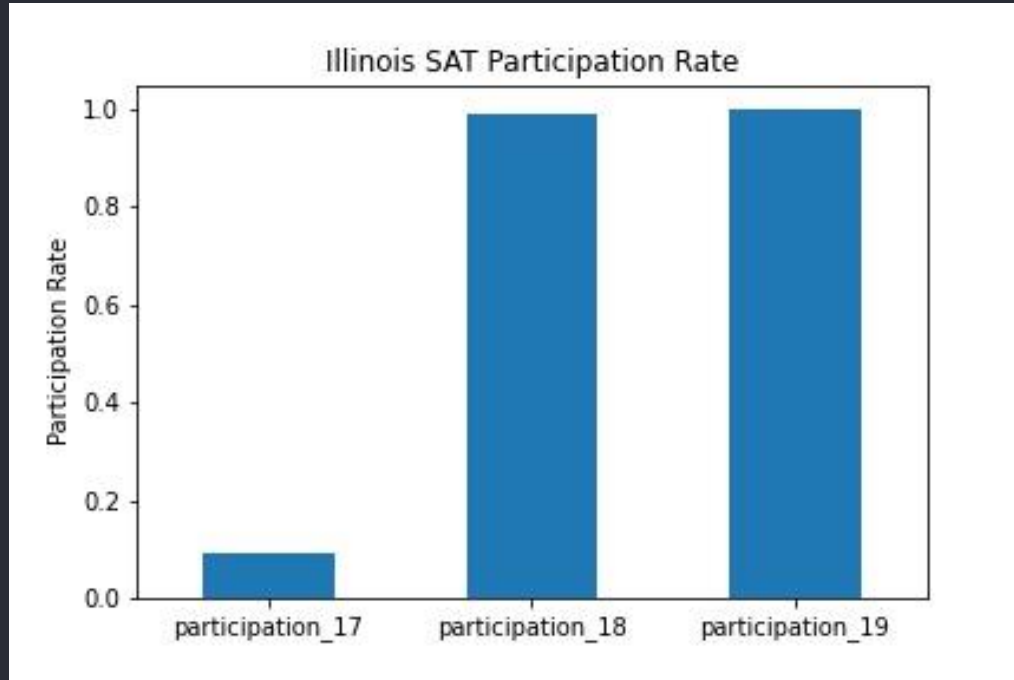
- Participation rate for SAT increased from around 11% in 2017 to 100% 2018
- The English and Math of SAT test are aligned to the common standard of the Colorado Academic Standards.



# Colorado



# Illinois SAT Participation Rate

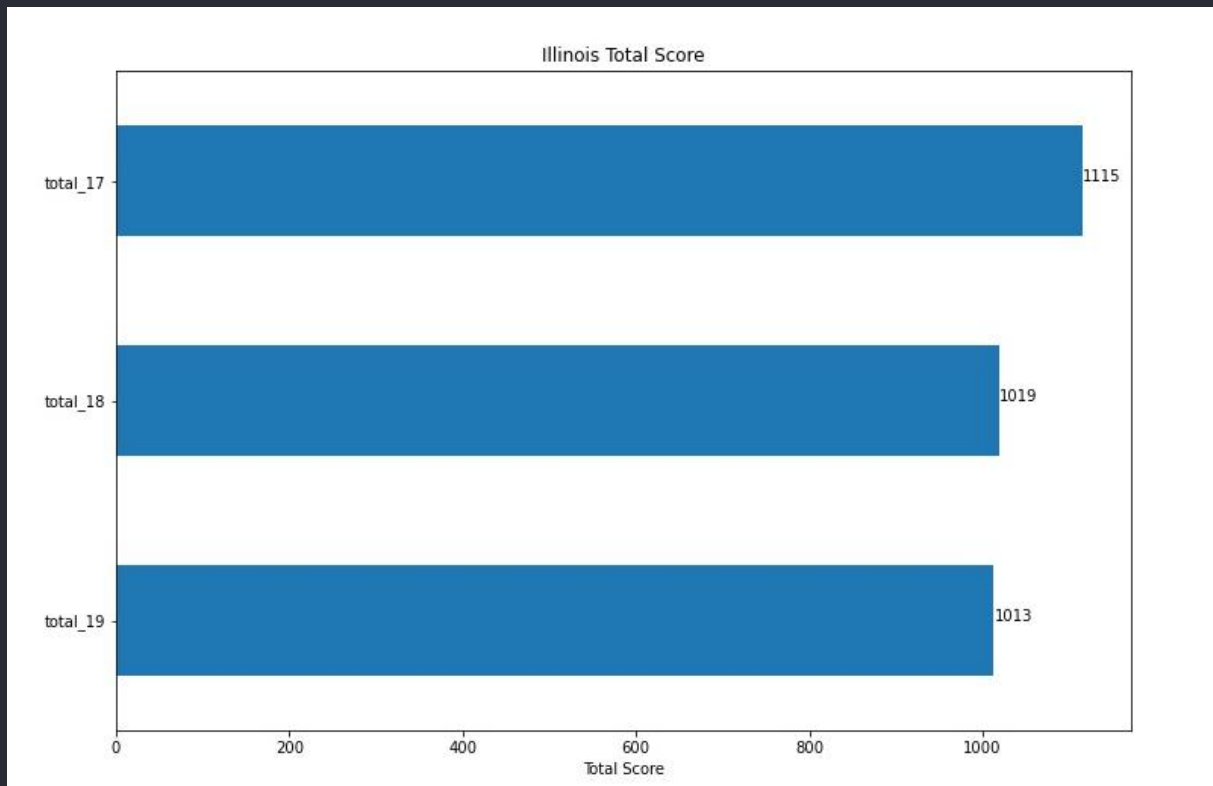


# Illinois

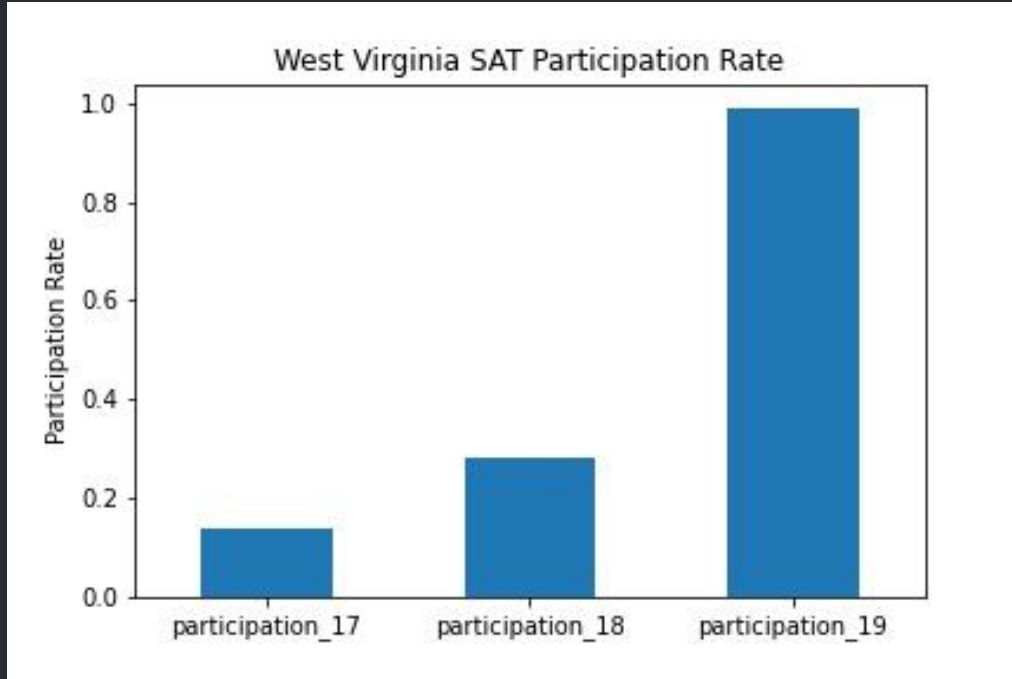
- Participation rate for SAT increased from around 9% in 2017 to 99% in 2018 and 100% in 2019
- Illinois has use ACT for 15 years until 2018
- The state has changed the composition of its mathematics curriculum



# Illinois



# West Virginia SAT Participation Rate

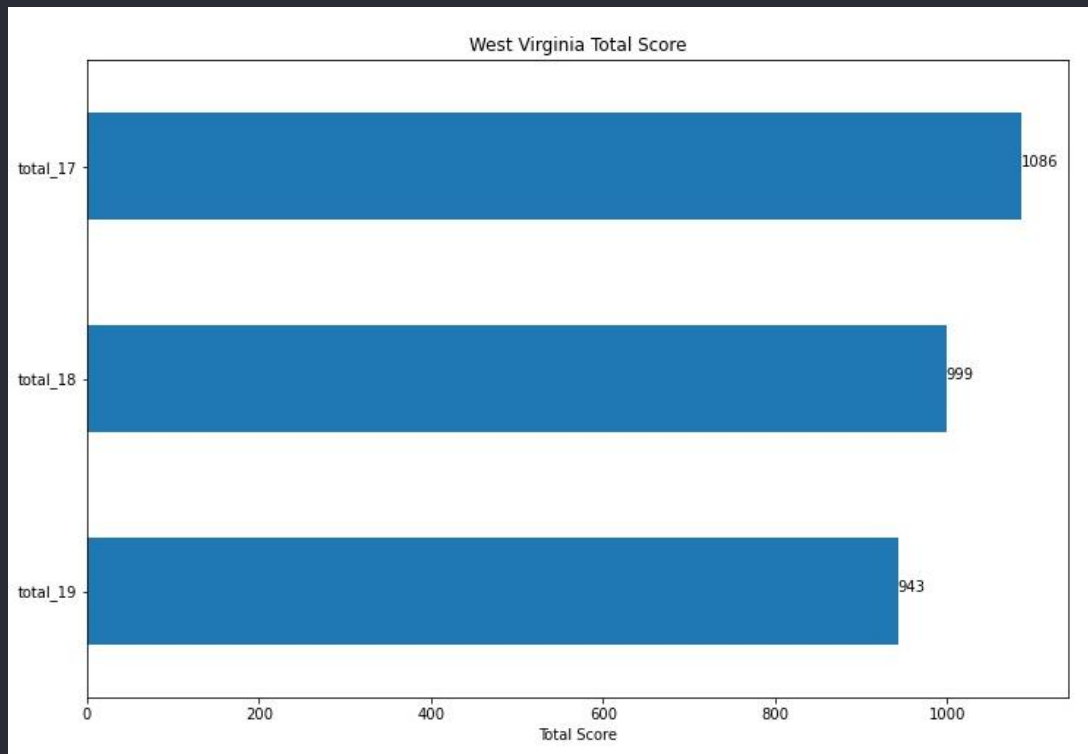


# West Virginia

- Department of education said that each test presented a proposal to the decision-makers at the department and, the SAT made the most sense for the state.
- SAT test fees is cheaper than ACT

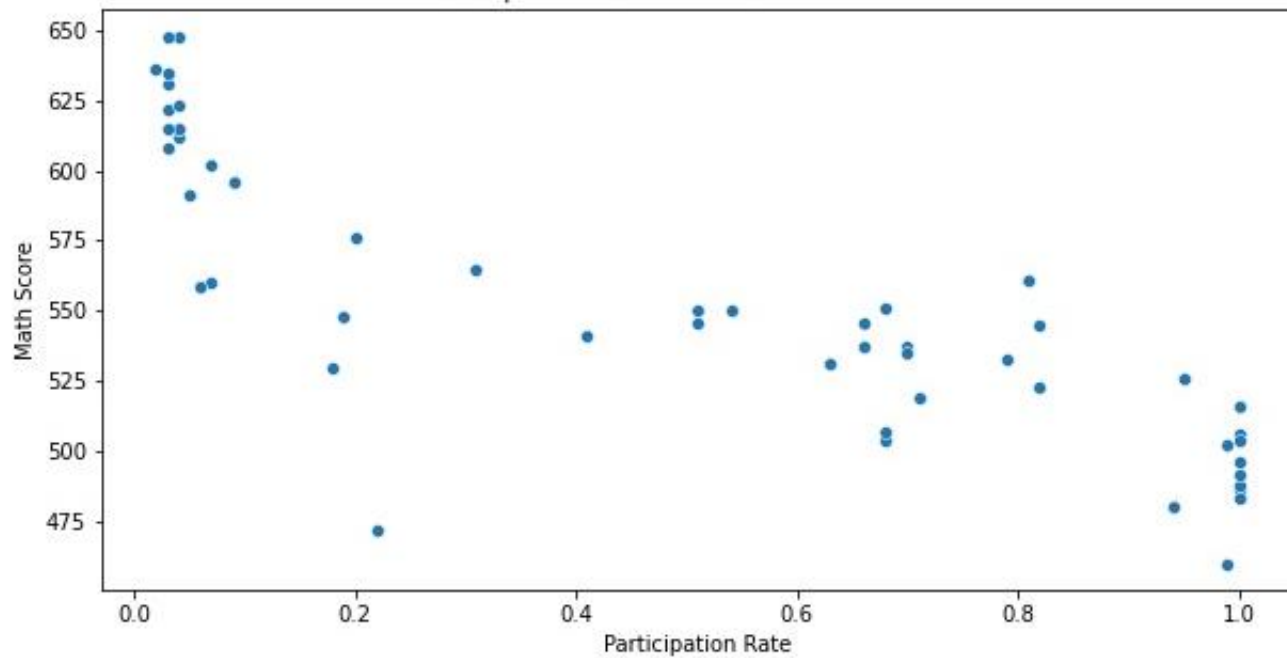


# West Virginia

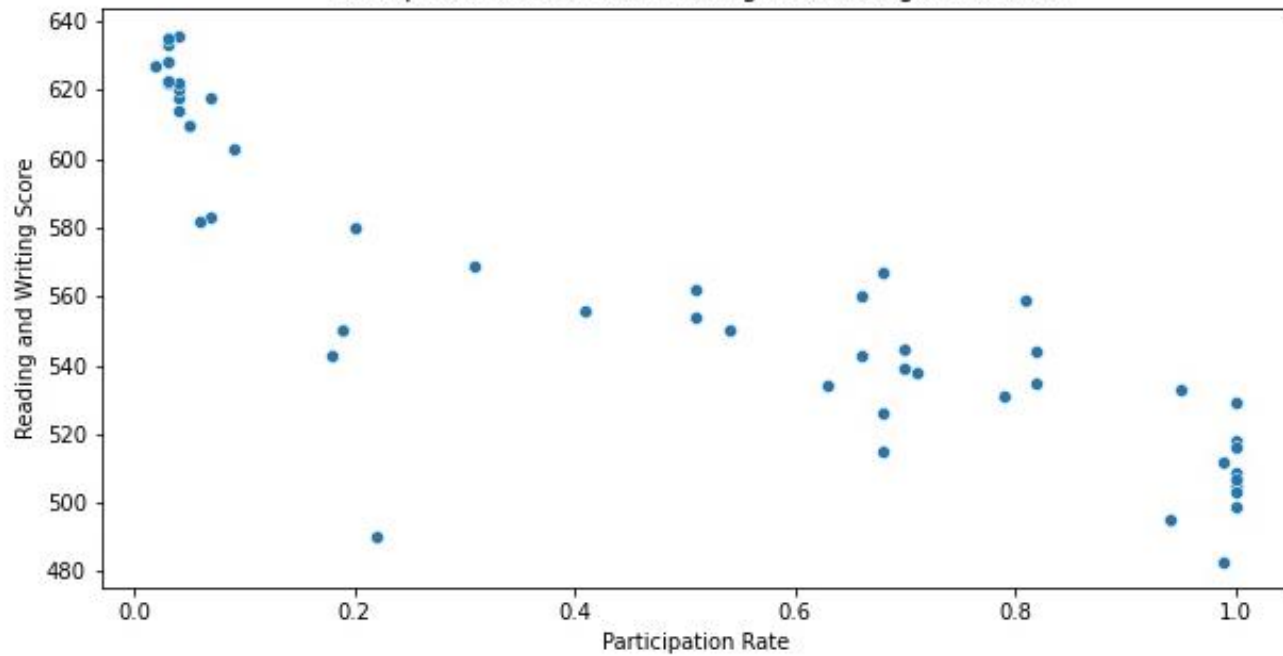




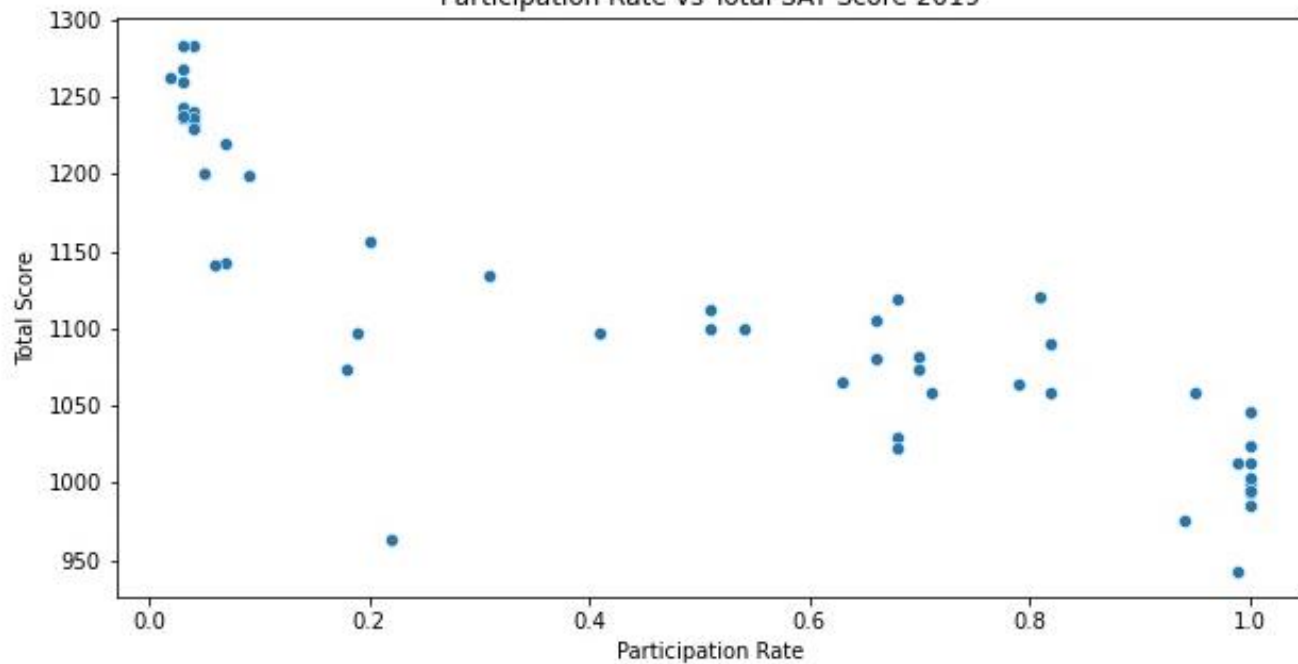
Participation Rate vs SAT Math Score 2019



Participation Rate vs SAT Reading and Writing score 2019



Participation Rate vs Total SAT Score 2019



# Conclusion

- There are three states that have switched standardized testing from the ACT to the SAT because of ...
- Participation rate has negative correlation with all test score
- Increasing in participation rate will result in a lower score.

# Recommendation

- The states should prepare the student to be ready for new kind of test.
- Make sure that the students know the content or details they will find on the new exam.
- ACT math can use calculator, but some part of SAT can't use.

The background is a solid dark blue. A central gold-outlined rectangle contains the text "Thank you". Several thin gold lines radiate from the corners and sides of this rectangle, extending towards the edges of the frame. These lines form various geometric shapes, including triangles and polygons, creating a dynamic, abstract pattern.

Thank you