



SAT & ACT Data Analysis

SAT or ACT low participation
rate

Created by Umar



Problem Statement

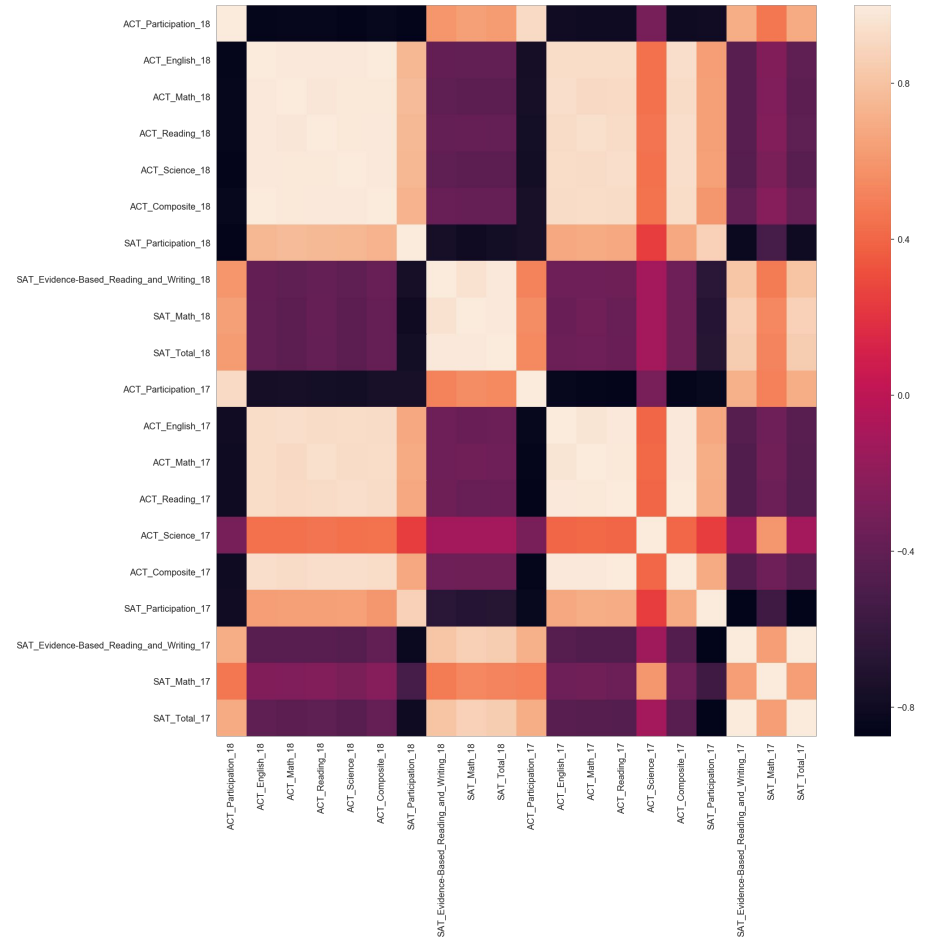
There has been a change in the participation rate.

And look into the reason why there is low participation for the exams

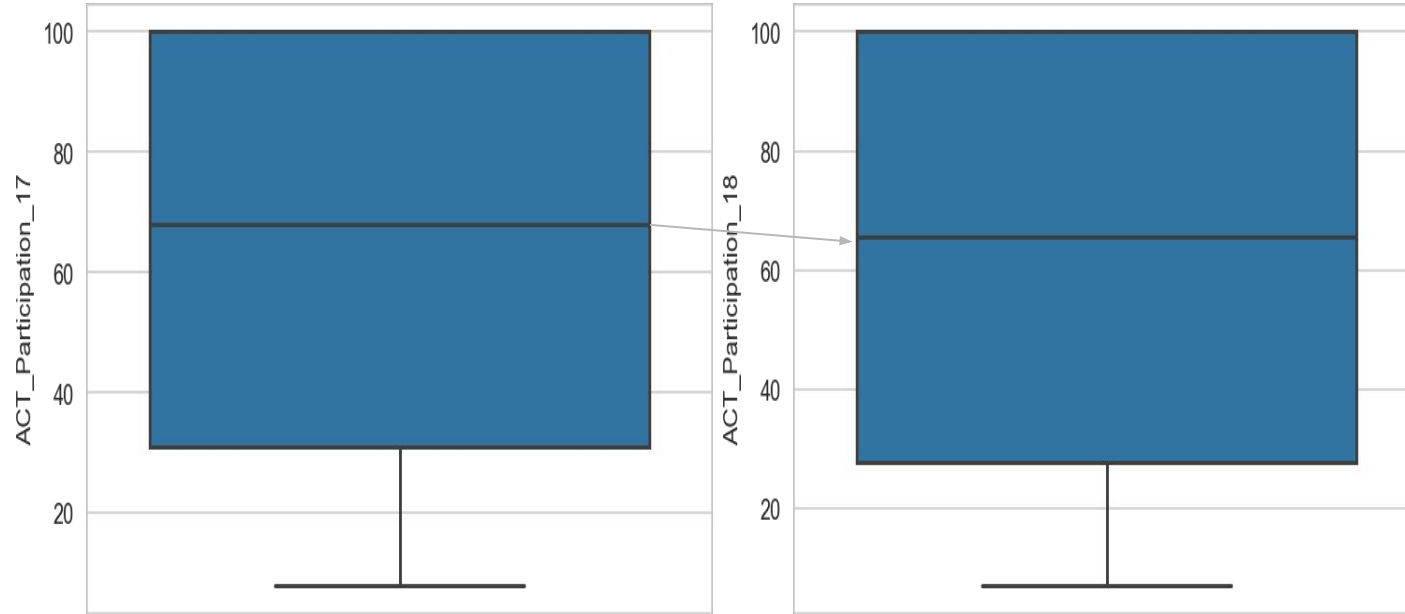
ACT VS SAT exam modules

| ACT | SAT |
|---------|------------------------------------|
| English | Evidence based reading and writing |
| Science | Math |
| Math | |
| Reading | |

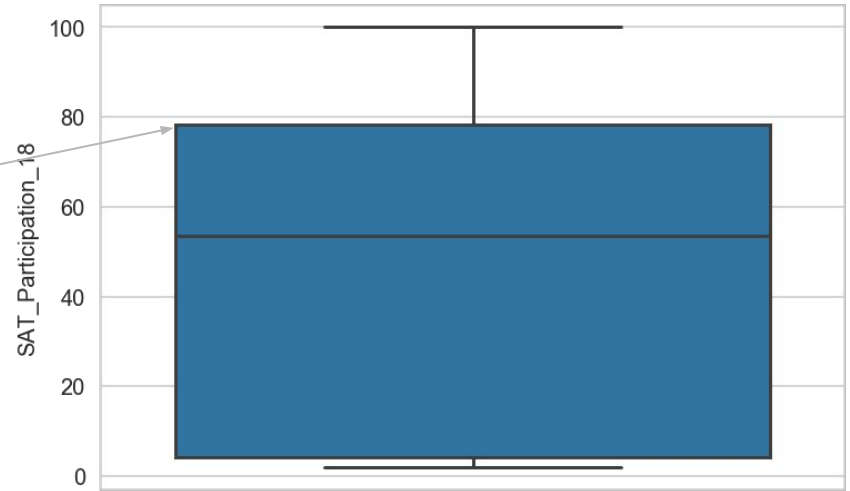
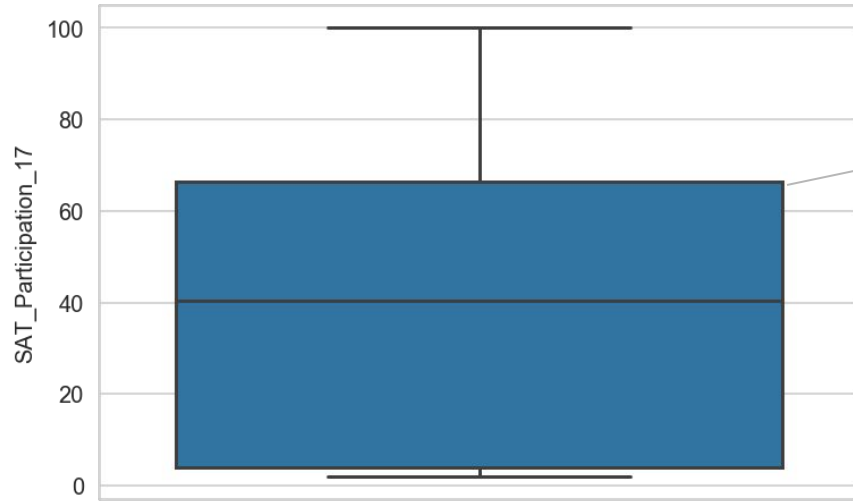
Generated Heat Map



ACT participation change



SAT participation change



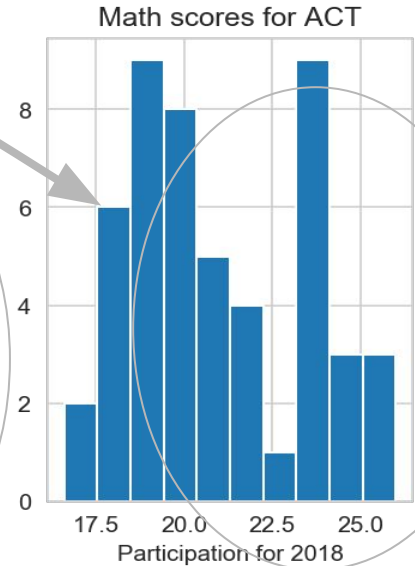
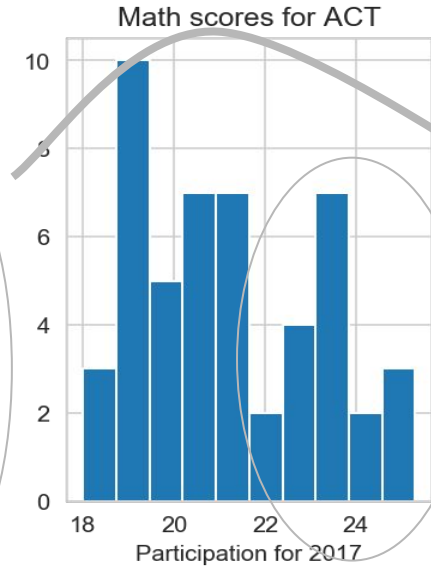
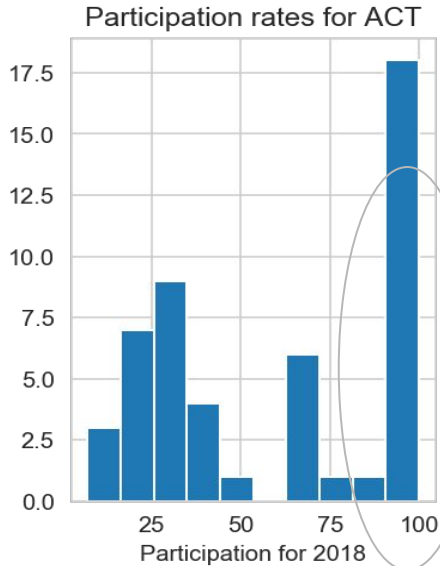
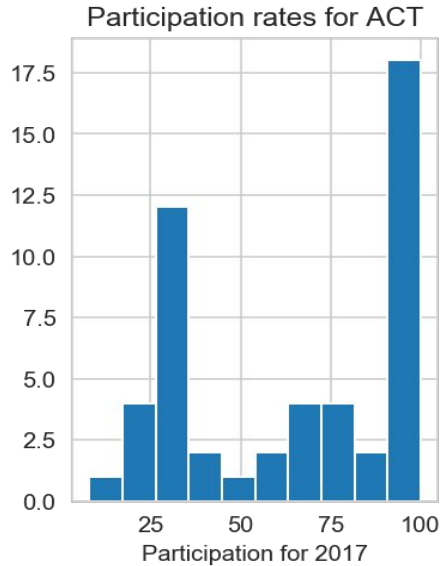
Changes in ACT format (2018)

- No changes
- Already have existing no score penalty system
- Standardised with school curriculum

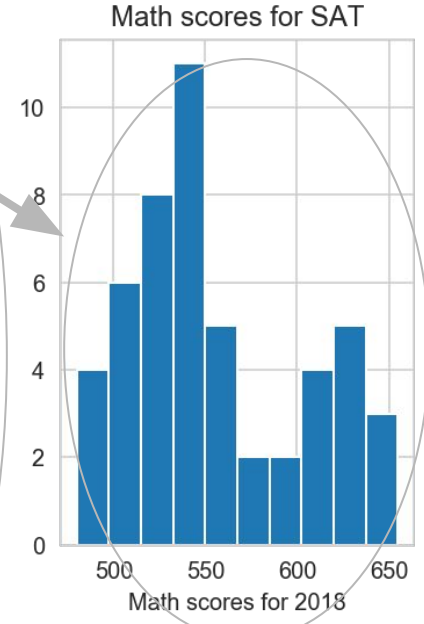
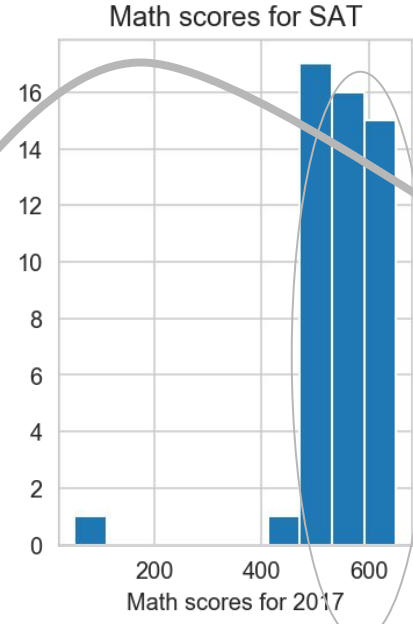
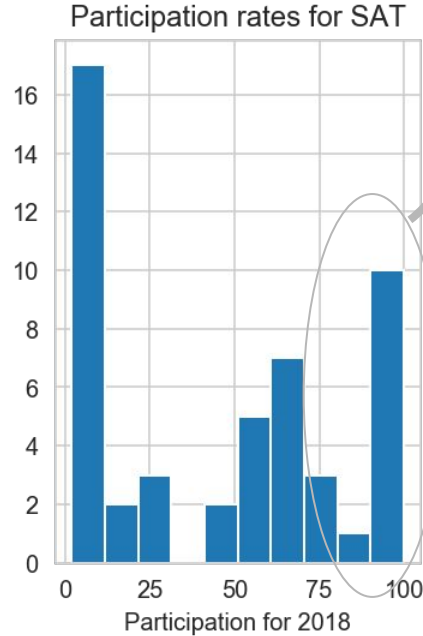
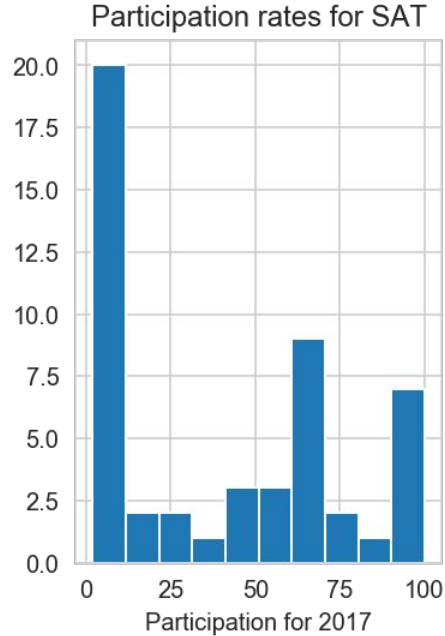
Changes in SAT format (2018)

- There is no score penalty for incorrect answers on the SAT exam
- Old SAT the max score was 2400, but current SAT the max score is just 1600
- College Board is teaming up with Khan Academy to provide free, online test prep.

Changes to passing rate in ACT



Changes to passing rate in SAT



Conclusion

- Due to the changes in SAT terms in 2018, lead to the rise in popularity in students taking SAT exams
- This is further backed by the higher rate of score of SAT, due to the removal of score penalty
- Even so ACT has a higher participation rate than SAT

Recommendations

- if SAT popularity persist, ACT can merge Reading and English as 1 module to reduce the number of exam modules, students need to take to gain popularity as it may indicate that students value the passing rate
- For SAT to be more popular, they may opt to standardise their exam format to encourage students who are more risk adverse