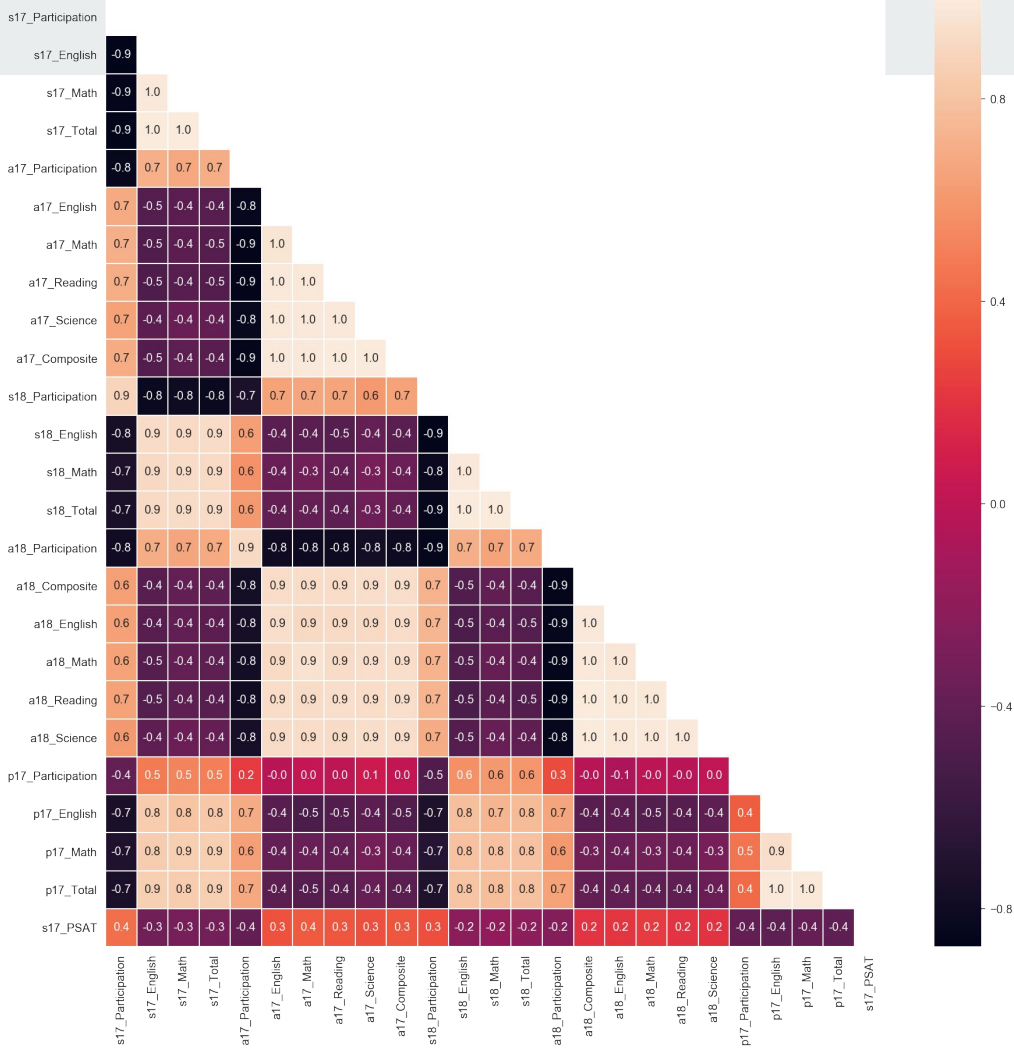# SAT & ACT Analysis

Problem Statement

SAT participation rates are behind ACT participation rates in the USA on a state level. Our department has been given funds to increase the participation rate and we need to know where best to invest the fund to increase our participation rates.
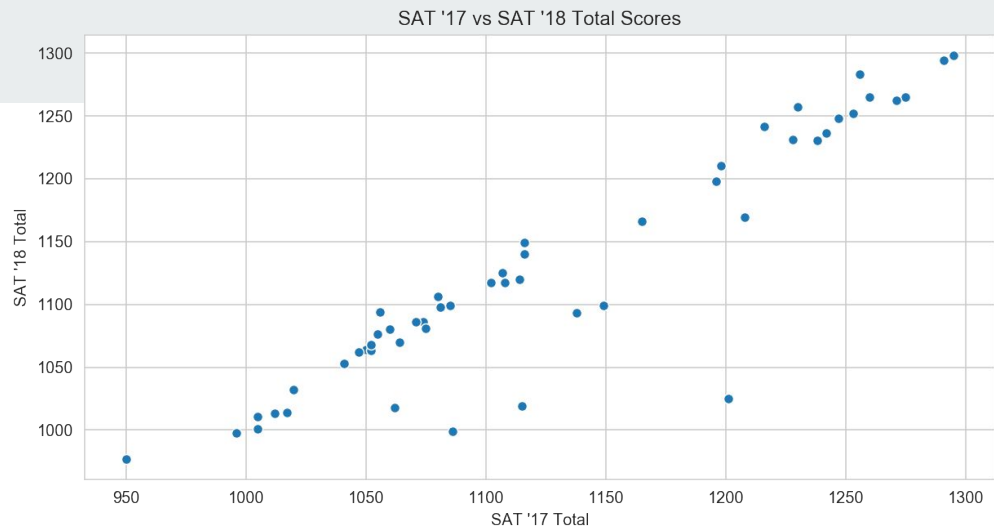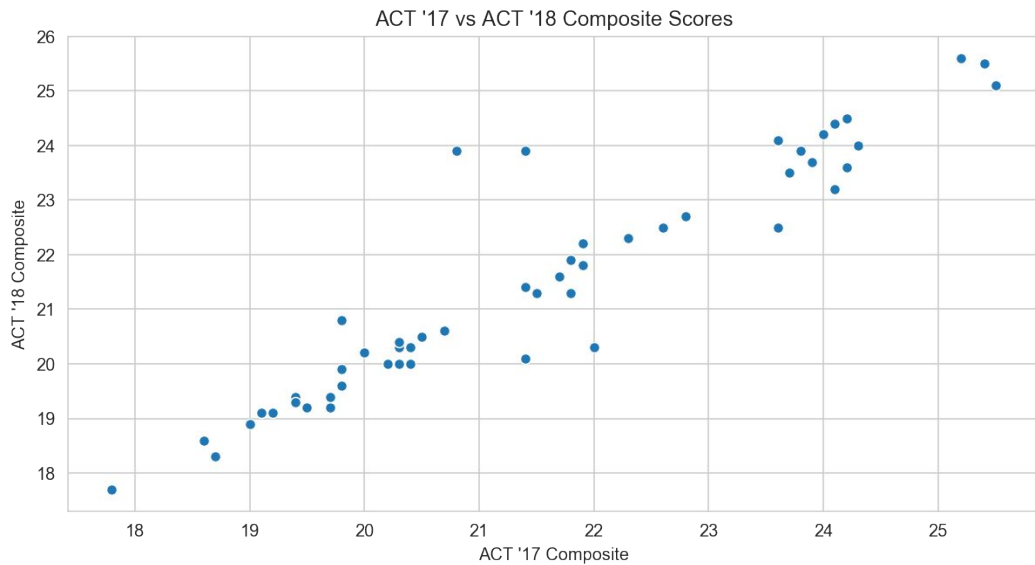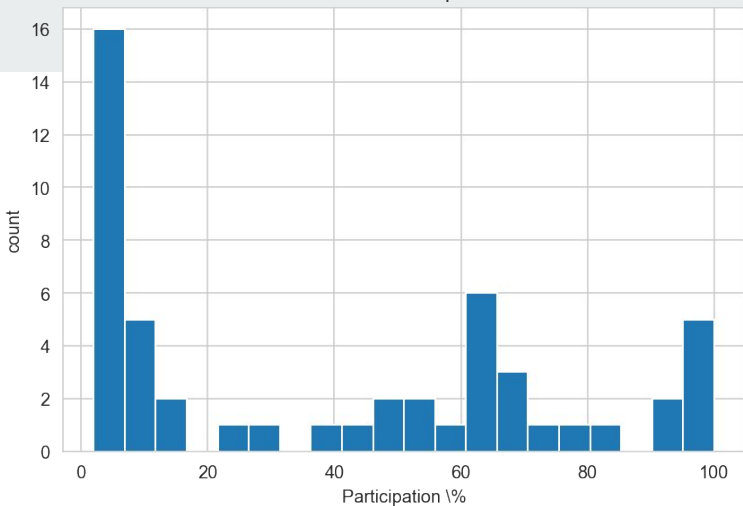
Heatmap

- Subject scores have high negative correlation with participation rates

- ACT and SAT participation have high negative correlation

- Subjects within the same group of tests have high positive correlation

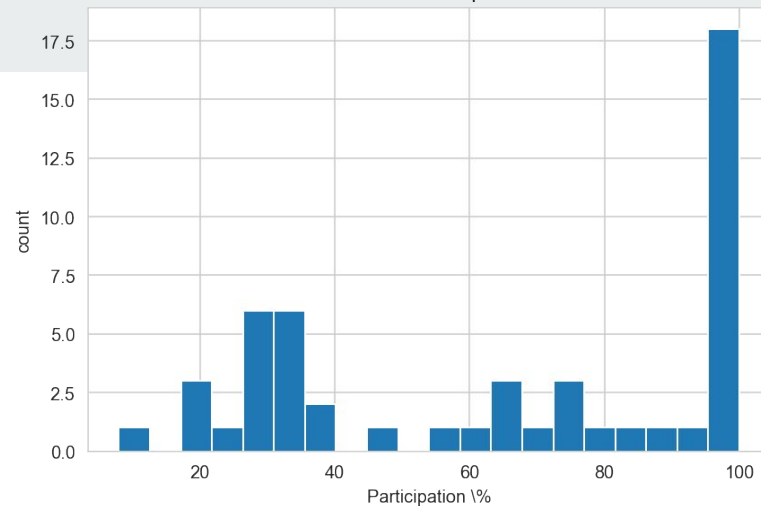- PSAT participation has a positive correlation with future SAT participation
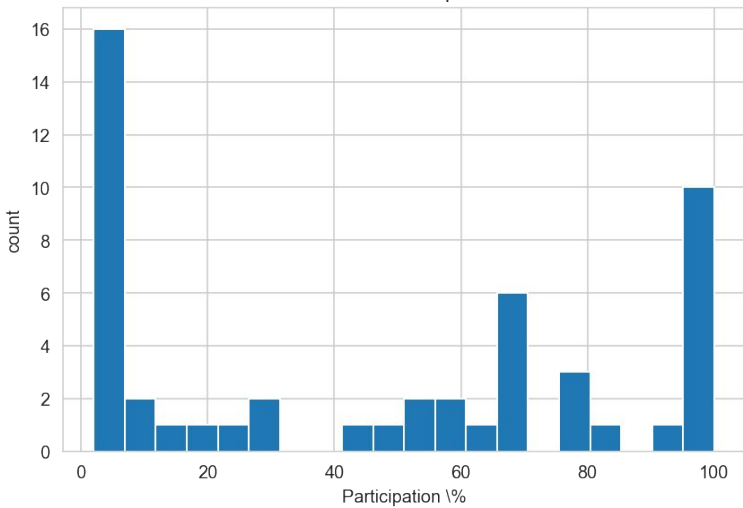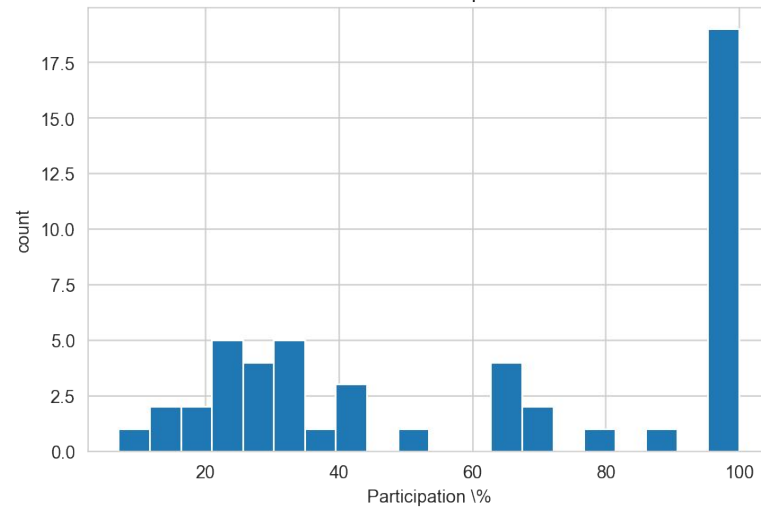
Test Score Correlations

SAT '17 vs SAT '18 Total Scores

ACT '17 vs ACT '18 Composite Scores
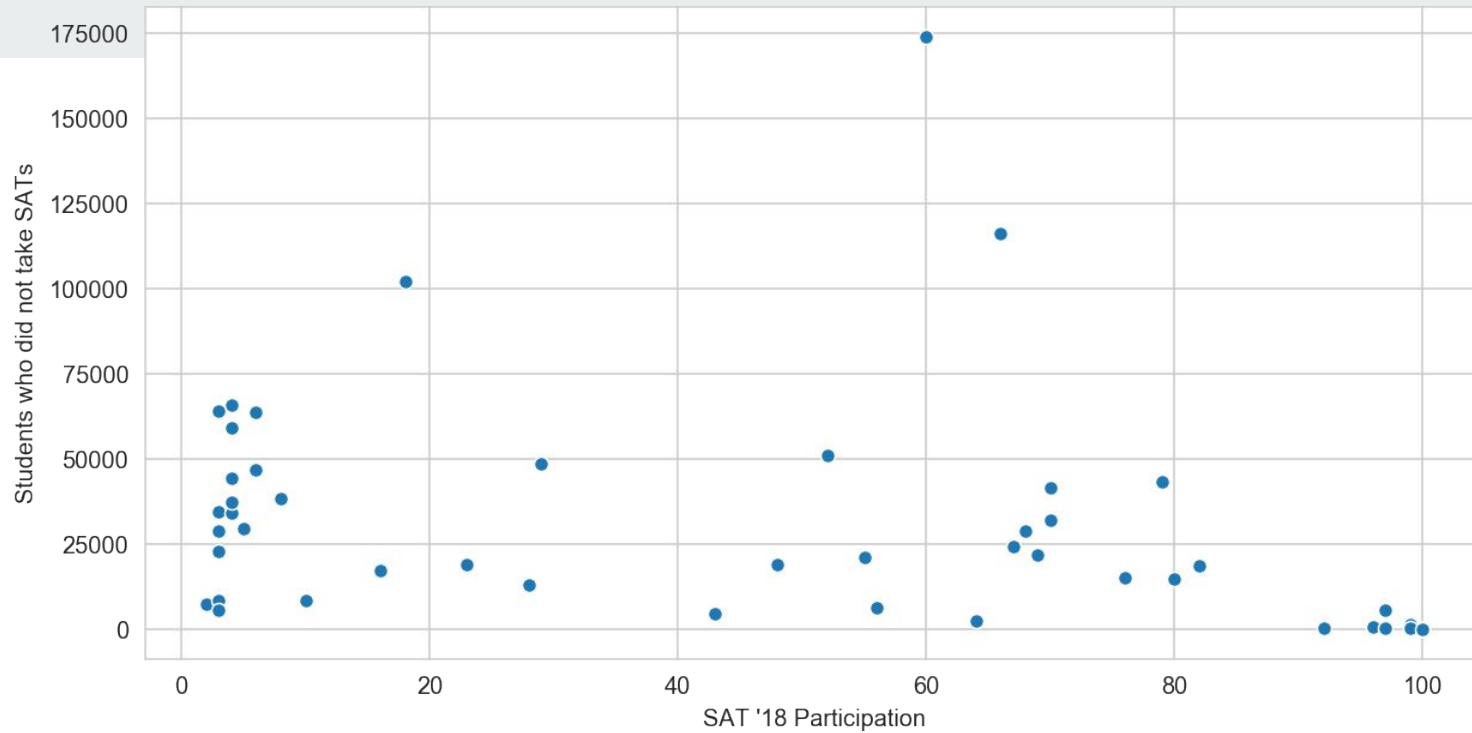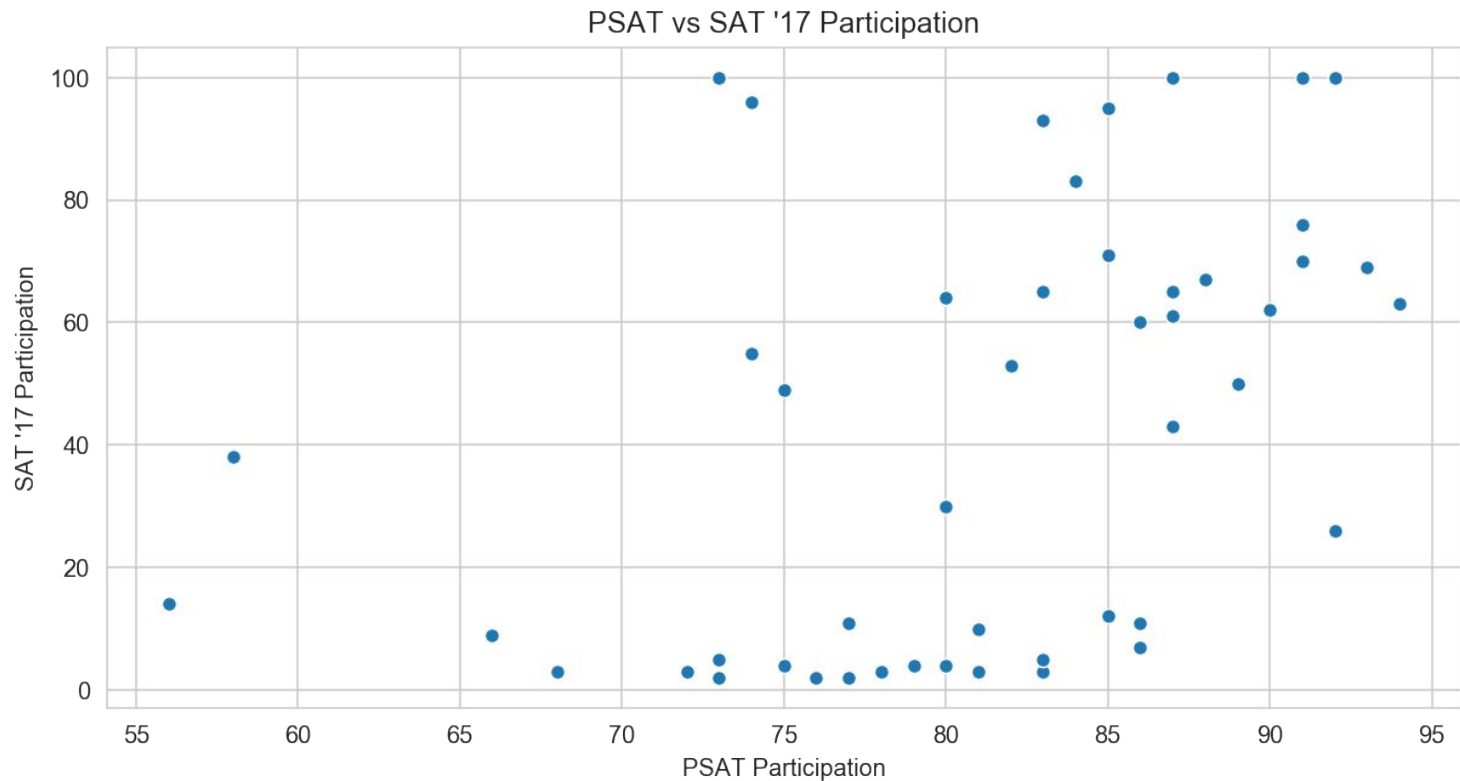
Participation Rate Distribution

SAT '18 Participation Rate vs Number who did not take SATs

Rate is not Numbers!

Influence of PSAT on SAT participation

Conclusion

1. Statewide assessment contracts

2. 'SAT School Days'

3. Value-add to candidates

4. Promote PSAT