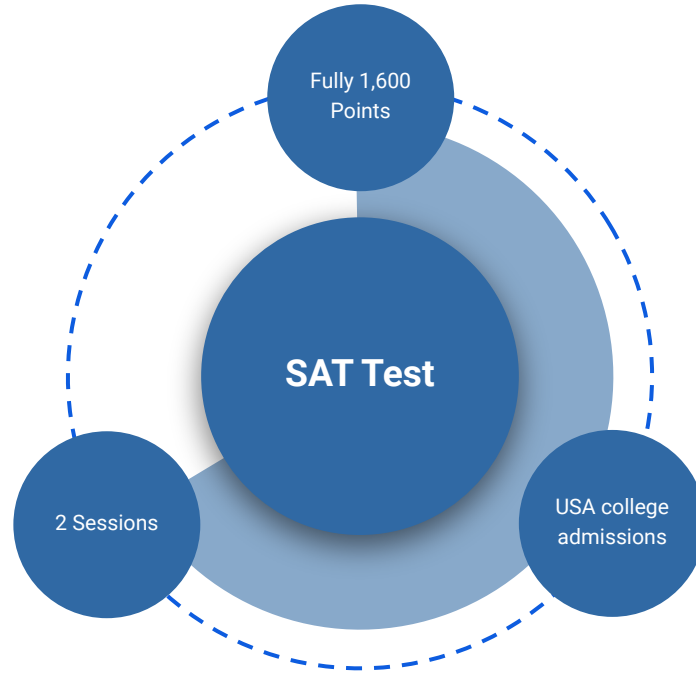


**Most states that have a participation rate of less than 40% will have above-average SAT scores.**



# What is the SAT ?



# Problem Statement

- The overall average SAT scores between 2017 and 2019 showed a **downward trend**.
  - **Participation rates varied** across states in the United States during this period.
  - To better understand this trend, it is important to explore the **relationship between participation rates and average SAT scores** in each state.
-

# Categorizing SAT Scores Based on Participation Rates

## Average SAT Score By Participation Rate

**0 - 20% = 1209.88**

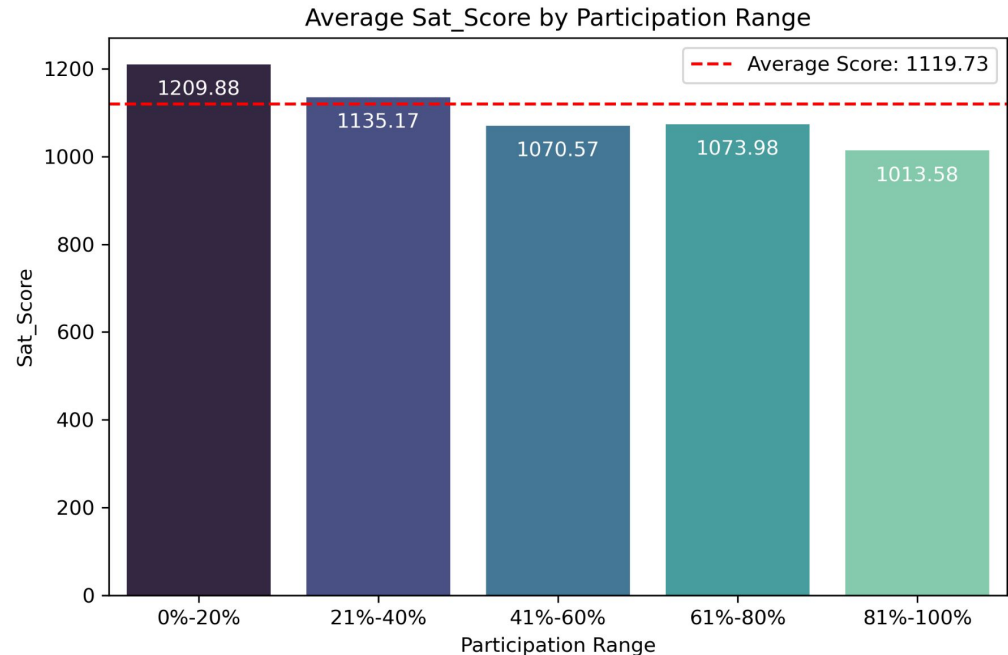
**21% - 40% = 1135.17**

**41% - 60% = 1070.57**

**61% - 80% = 1073.98**

**81% - 100% = 1013.58**

**Less than 40% of participation rate  
above average-SAT score**

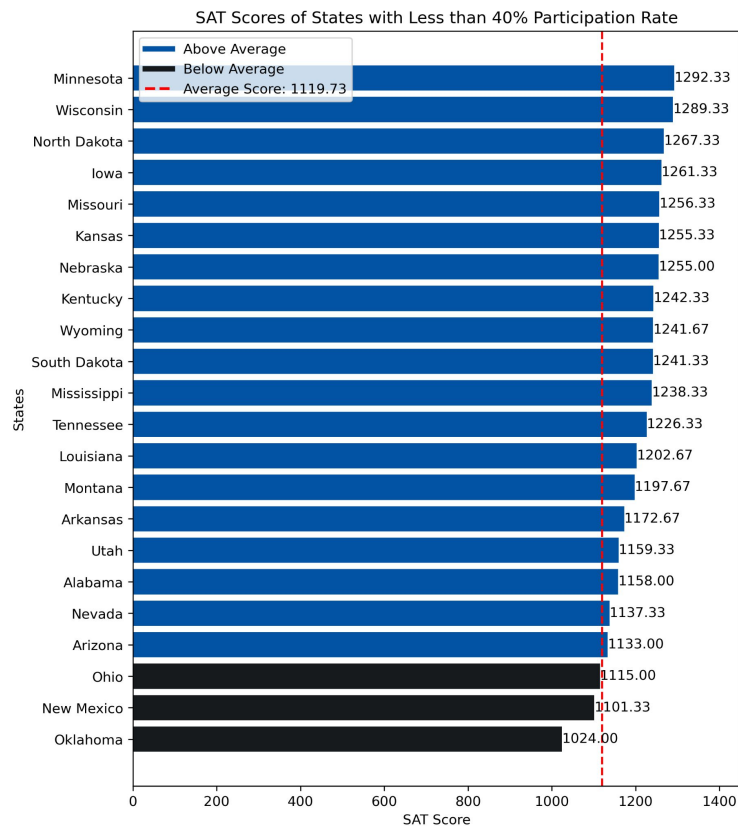


# Breakthrough Less than 40 Participation Rate

19/22 States

that over average- SAT score

Only 3 States the on below of average-SAT score :  
Ohio, New Mexico, Oklahoma



# Conclusion

**83% of states have a participation rate of less than 40%, while the SAT scores are above average in all of these states. Additionally, in these states, at least 65% of students participated in the ACT, showing a forward trend.**

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# Keys Factors

The hypothesis is influenced by key factors:

- ❖ Selection Bias
  - ❖ Focus on ACT
  - ❖ School Policies
-

# Recommendation

- ❖ Encourage to Increases participation
  - ❖ Focusing on Underserved Groups
  - ❖ Awareness Campaigns
  - ❖ Long-Term Data Studies
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