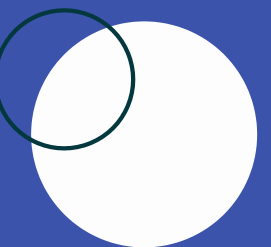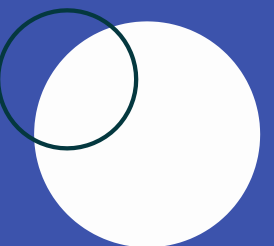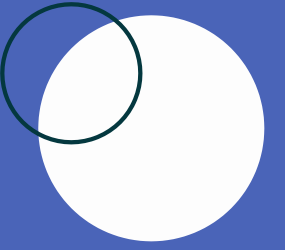# DSI 927- SAT/ACT Analysis

Abdeljalil Kabbaj

The question asked is: Does the level of academics taught in Californian high schools englobe the necessary level to successfully study and complete the SAT/ACT and how does it compare to the rest of the nation ?

Data Used

- SAT scores for the nation in 2019

- ACT scores for the nation in 2019

- SAT scores for the state of California in 2019

- ACT scores for the state of California in 2019

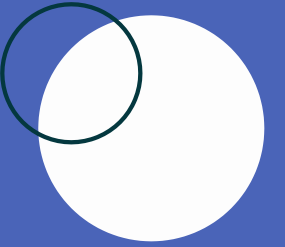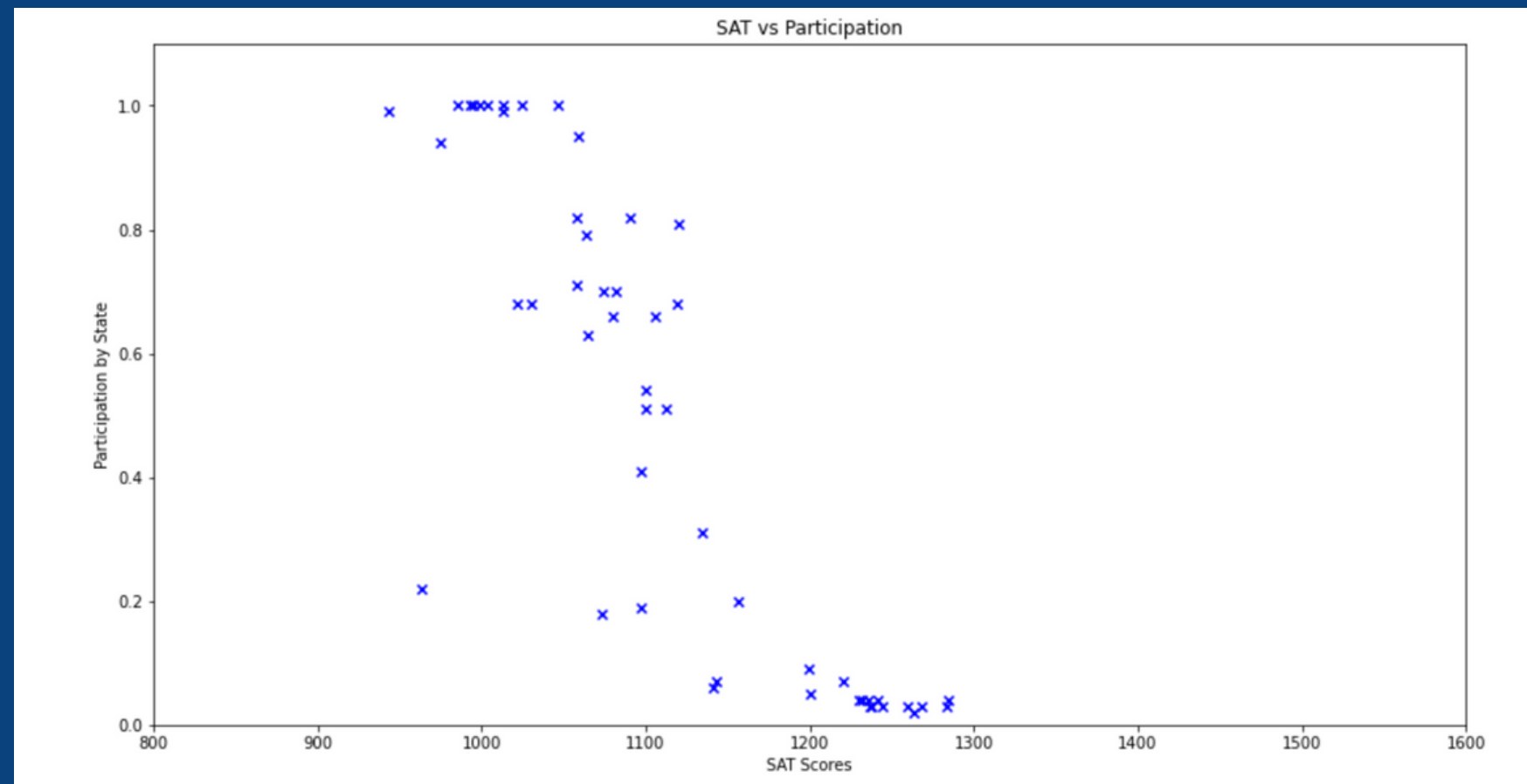# Looking at SAT scores nationwide

Figure 1.

Where does California Stand?

Participation: 63%

EBRW: 534

Math: 531

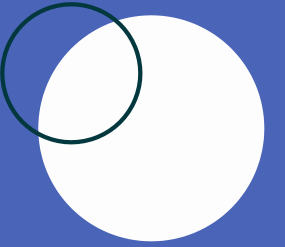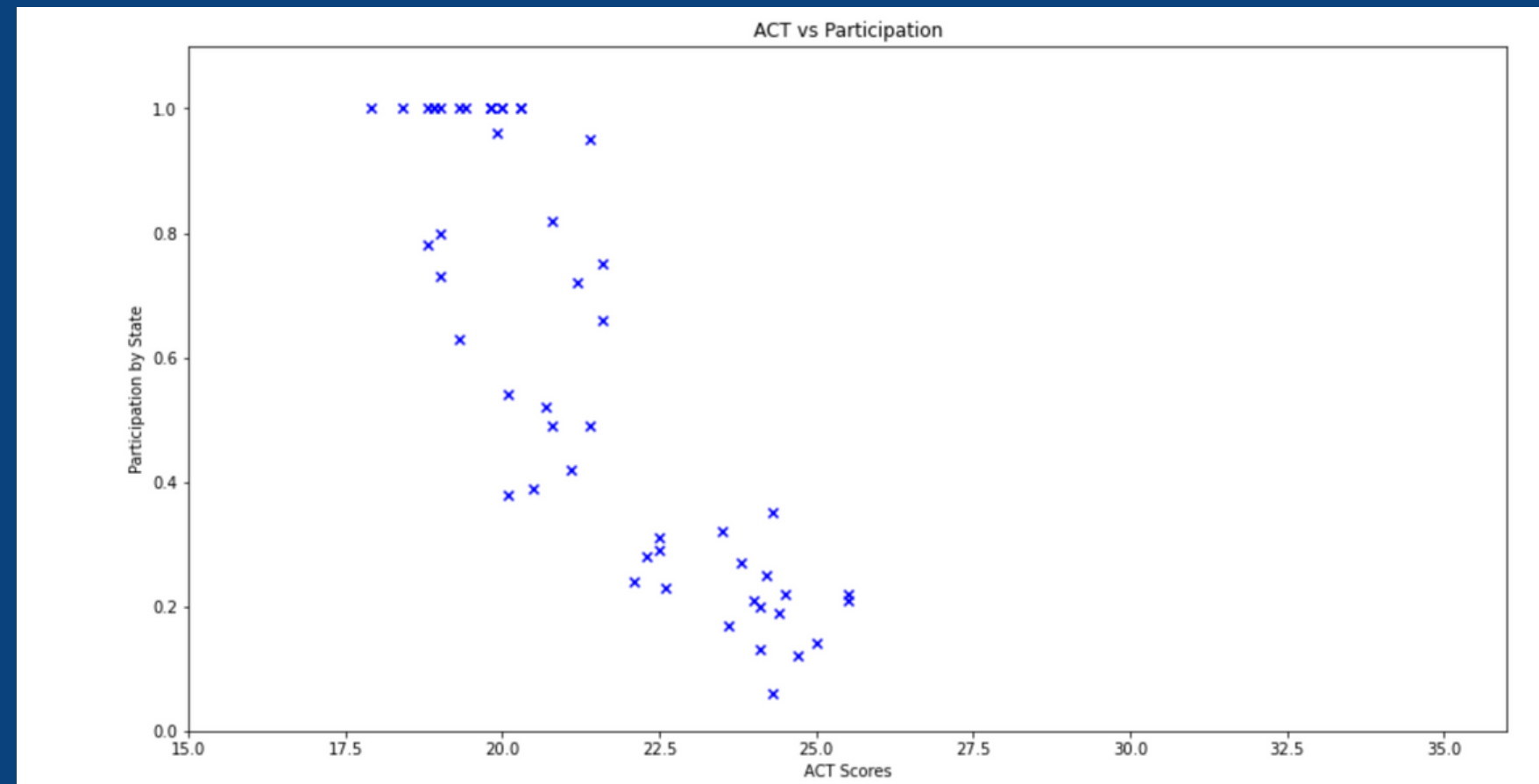Total:1065

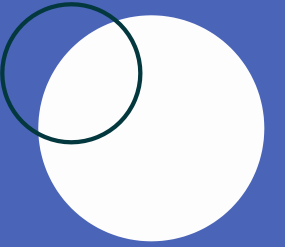# Looking at ACT scores nationwide

Figure 1.

Where does California Stand?
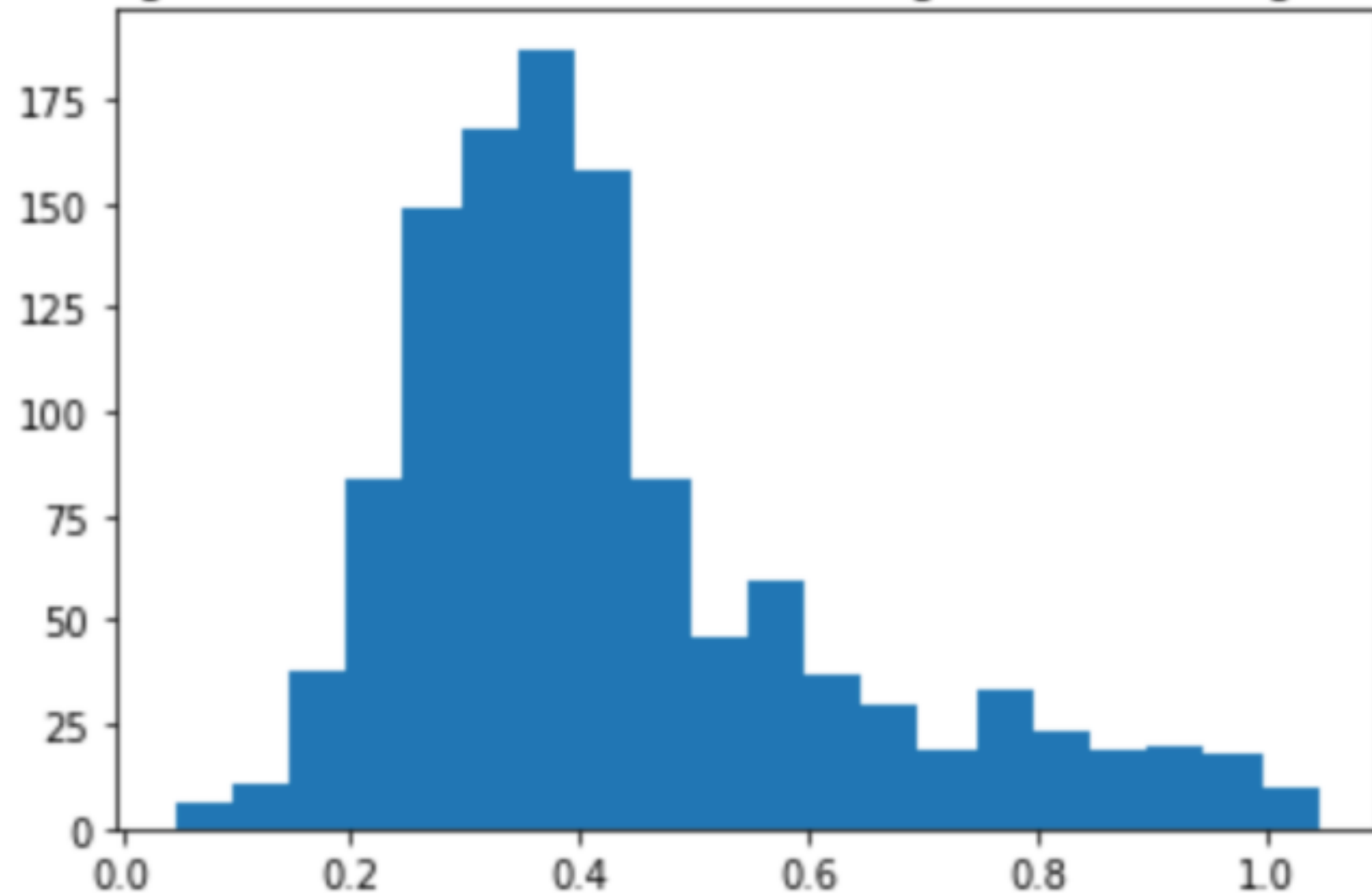

Participation: 23%

Composite: 22.6

SAT in California: Participation
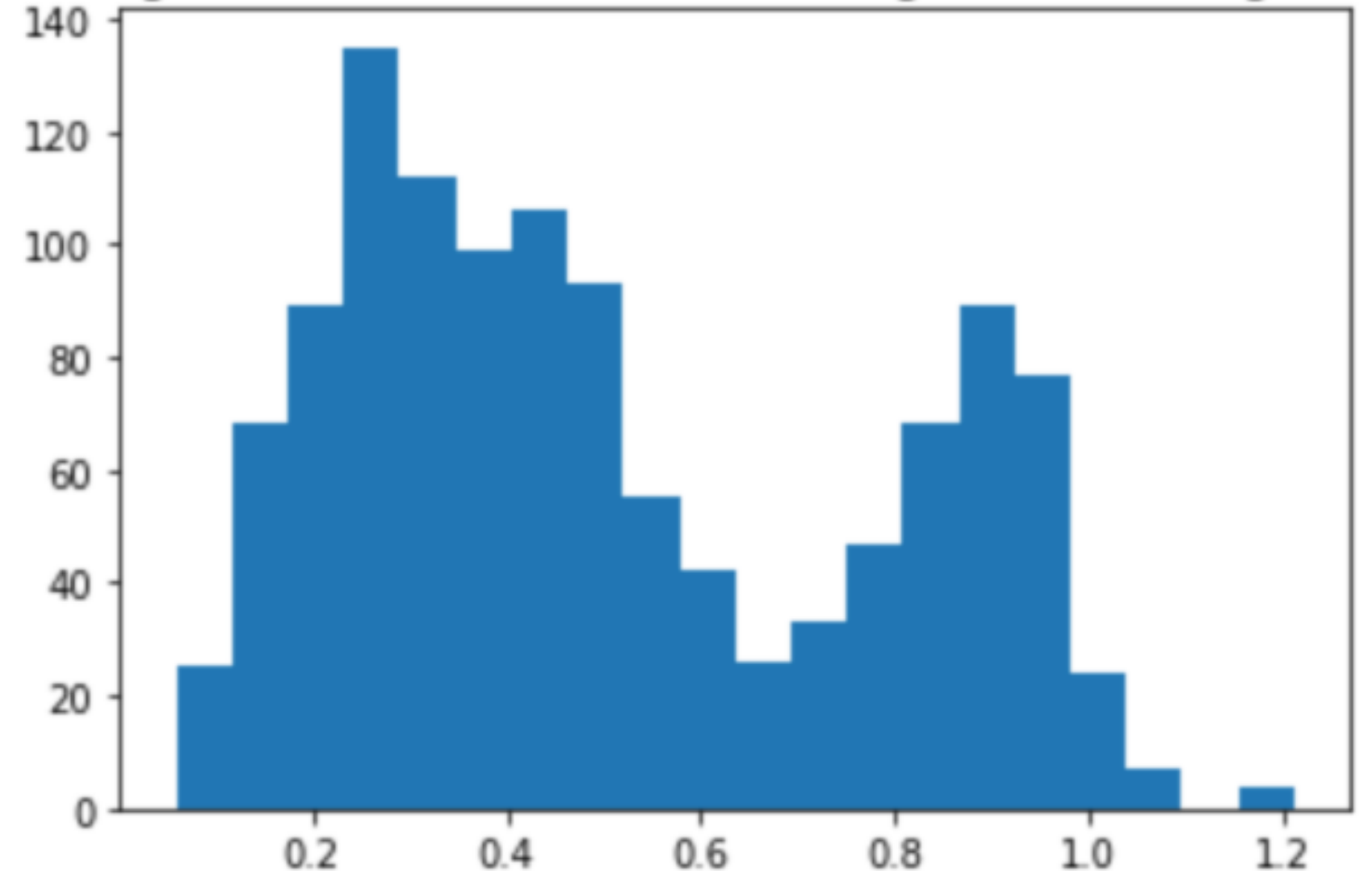## Looking at the enrolled students

Histogram of ratio of students attending to enrolled in grade 12

Skewed to the right.

Histogram of ratio of students attending to enrolled in grade 11

Bimodel: Two observed peaks.
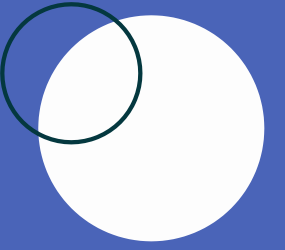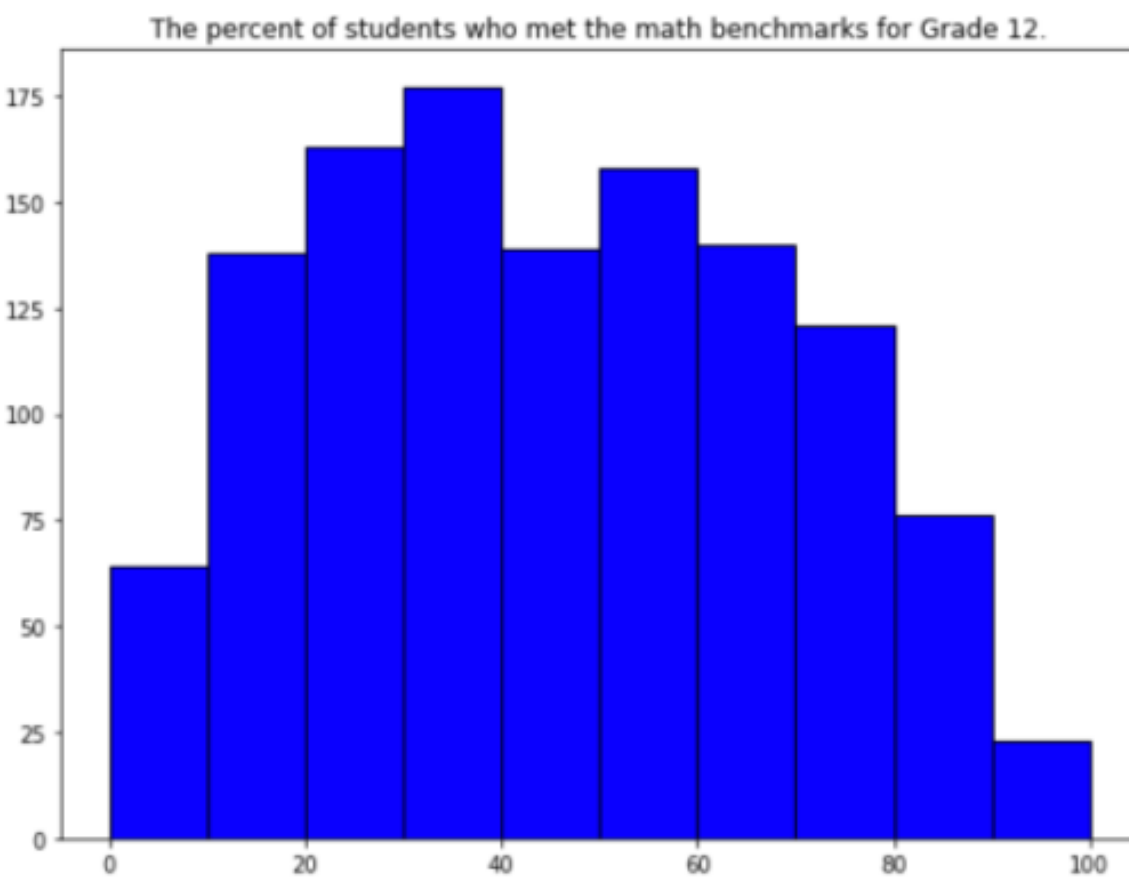
SAT in California

Grade 12 Benchmarks

Figure 1.

Figure 2.

Figure 3.

The percent of students who met the math benchmarks for Grade 12.

The percent of students who met the english, reading, and writing benchmarks for Grade 12.

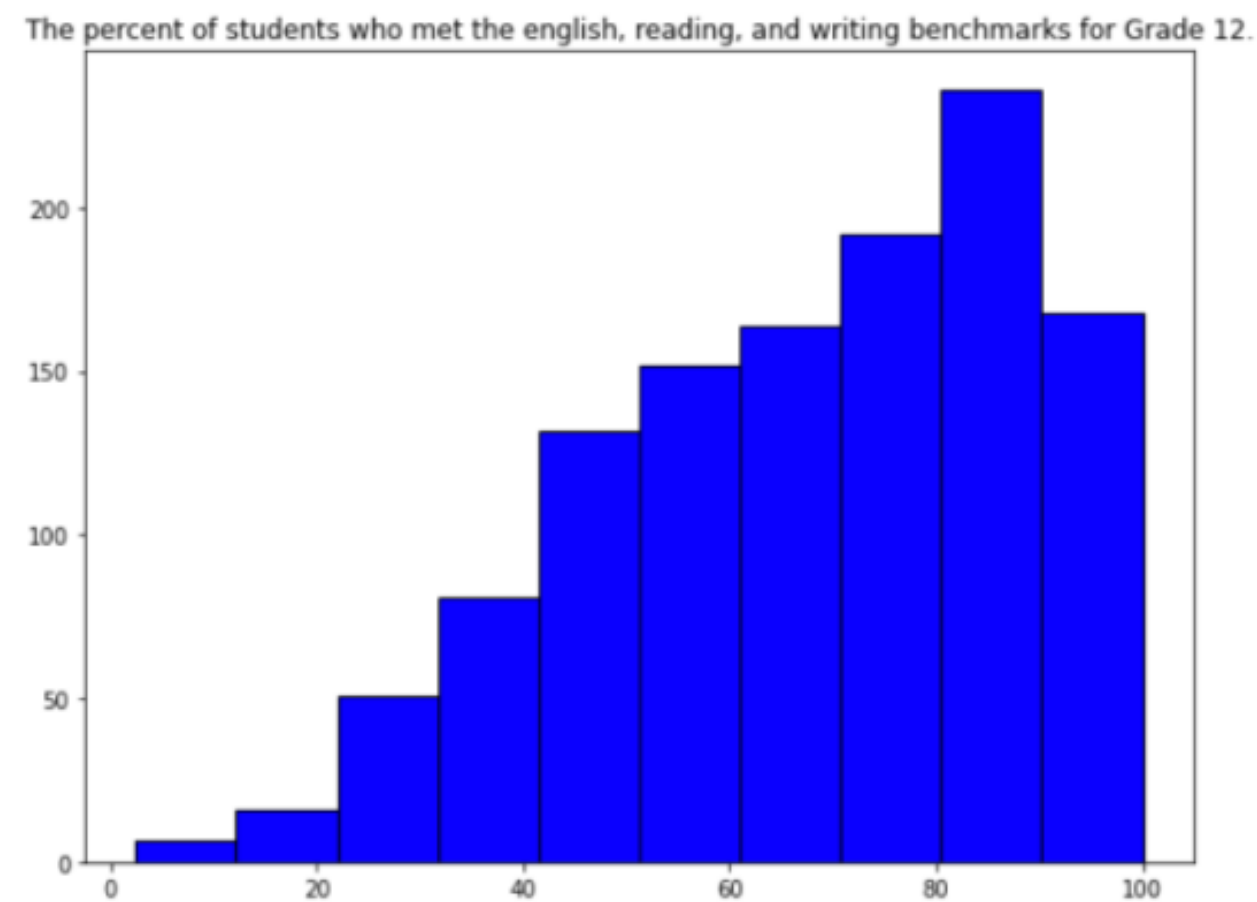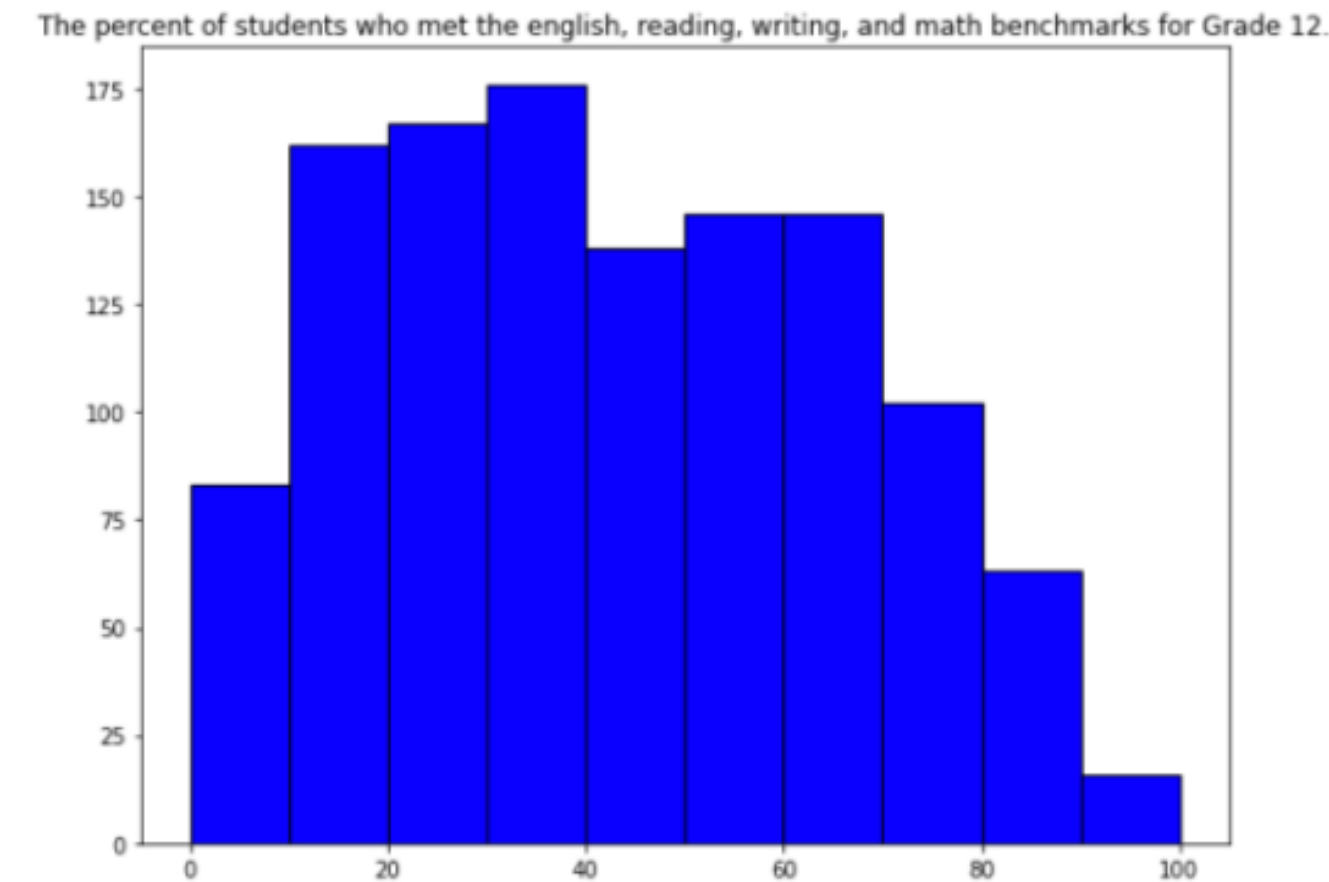The percent of students who met the english, reading, writing, and math benchmarks for Grade 12.

SAT in California
Grade 11 Benchmarks
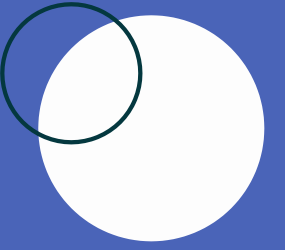
Figure 1.
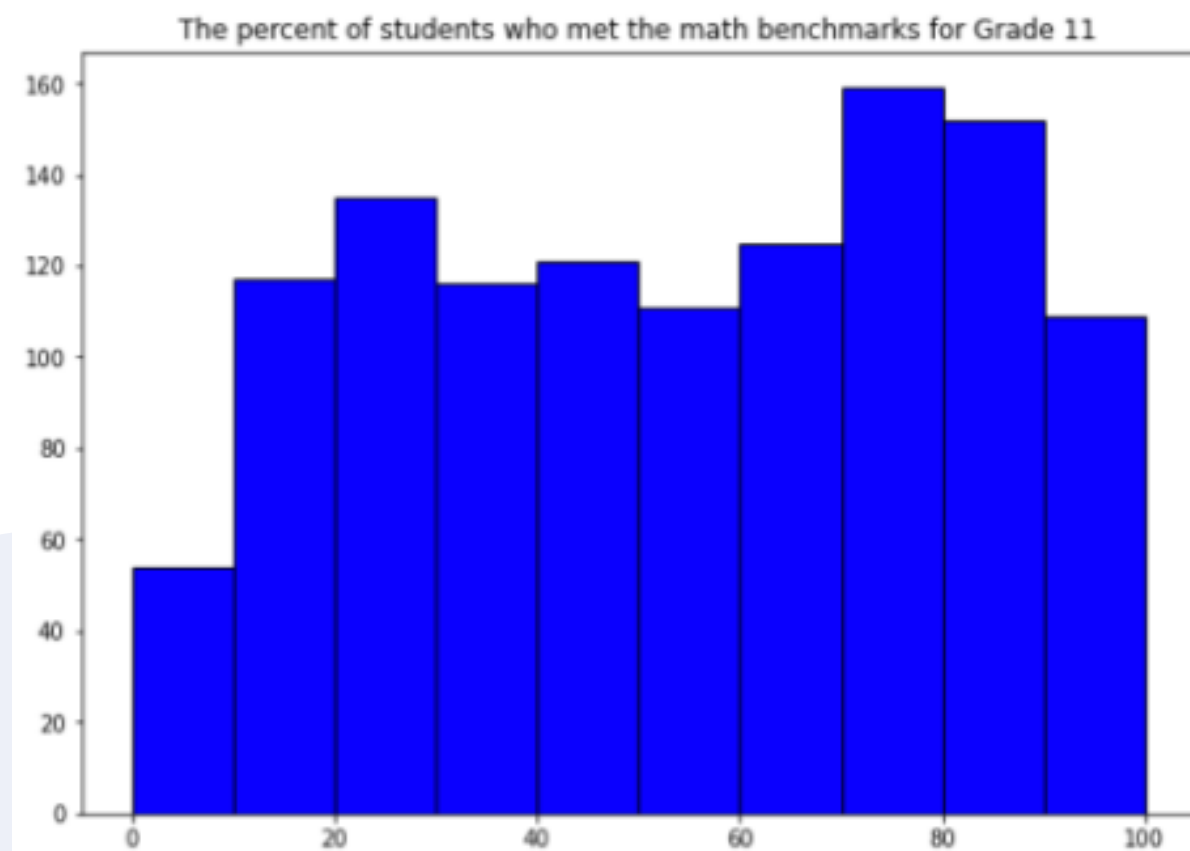
Figure 2.

Figure 3.

The percent of students who met the math benchmarks for Grade 11

The percent of students who met the english, reading, and writing benchmarks for Grade 11

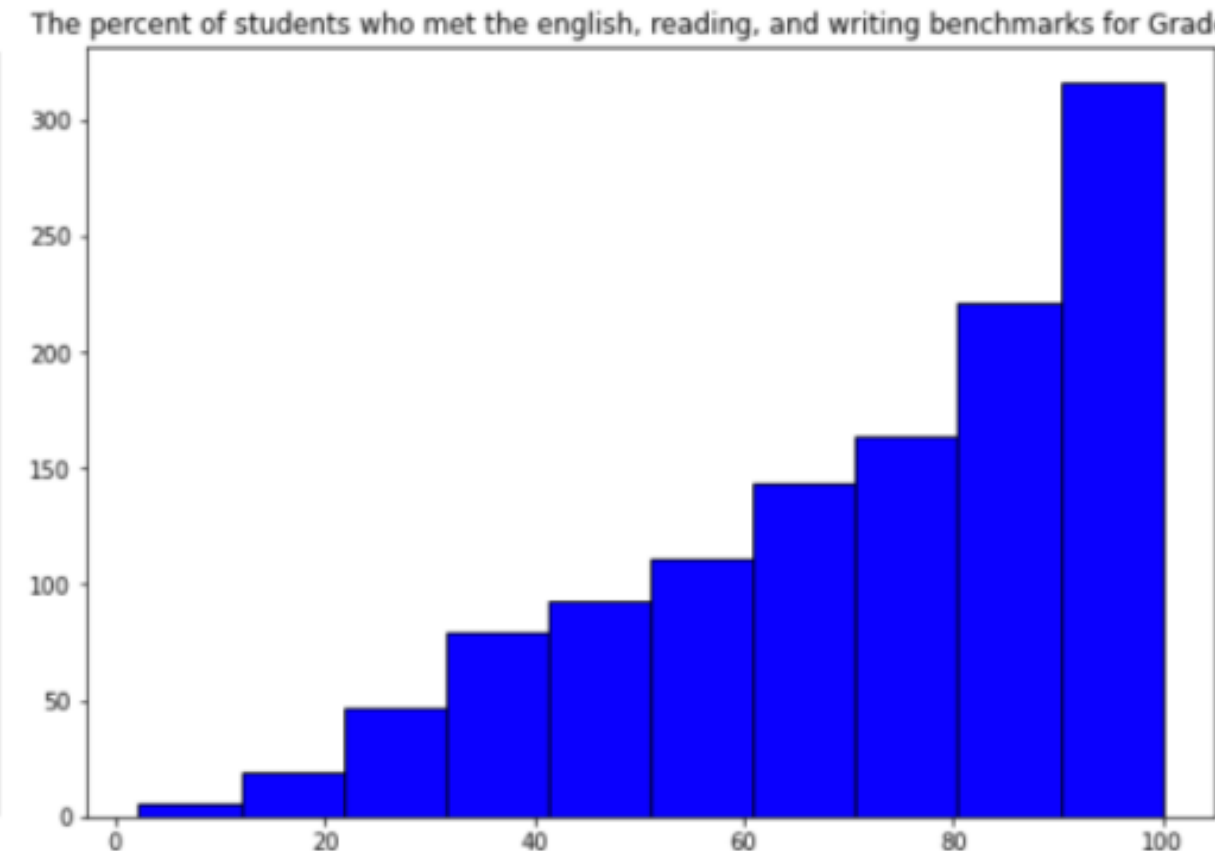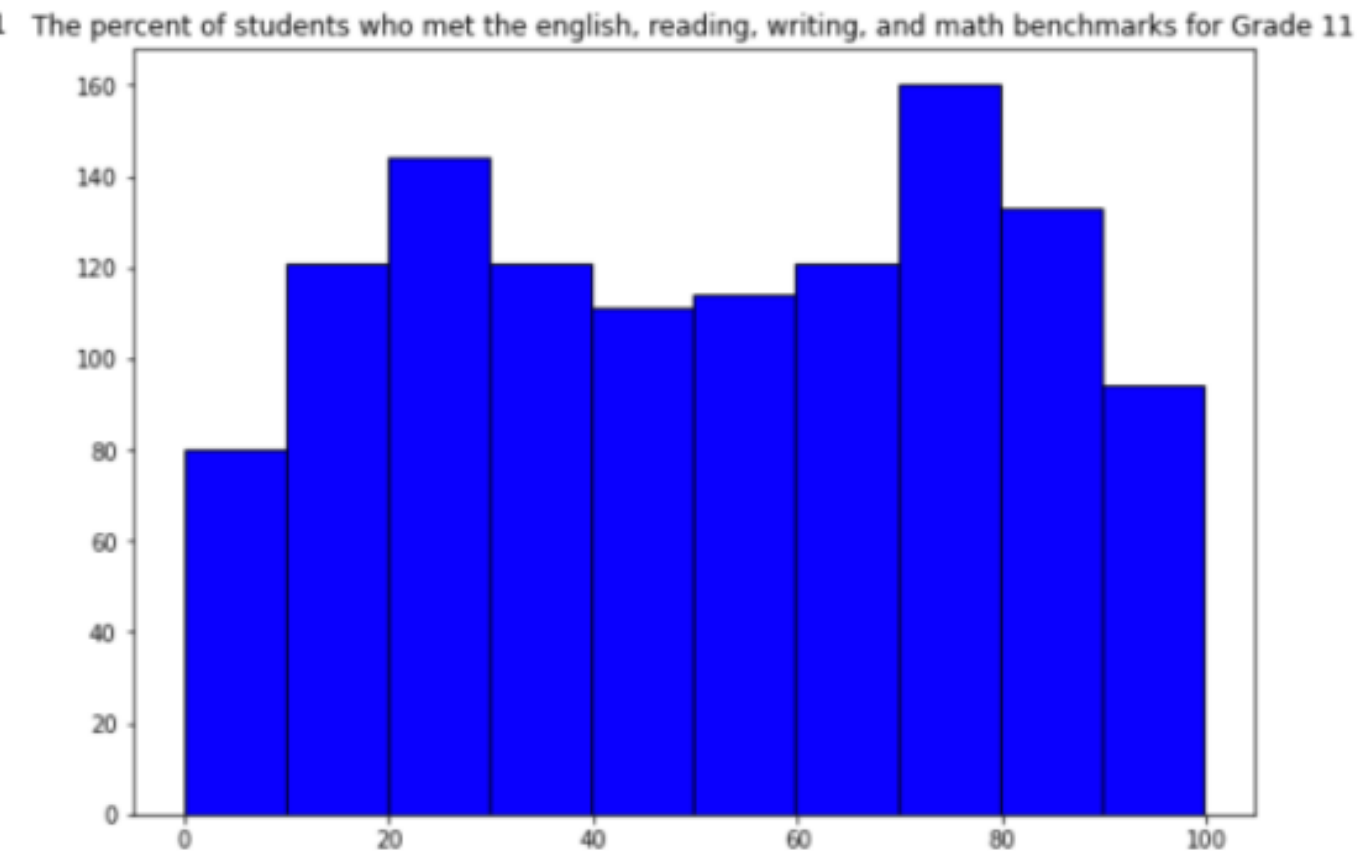The percent of students who met the english, reading, writing, and math benchmarks for Grade 11

ACT in California: Participation
Looking at the enrolled students

Histogram of participation in grade 11
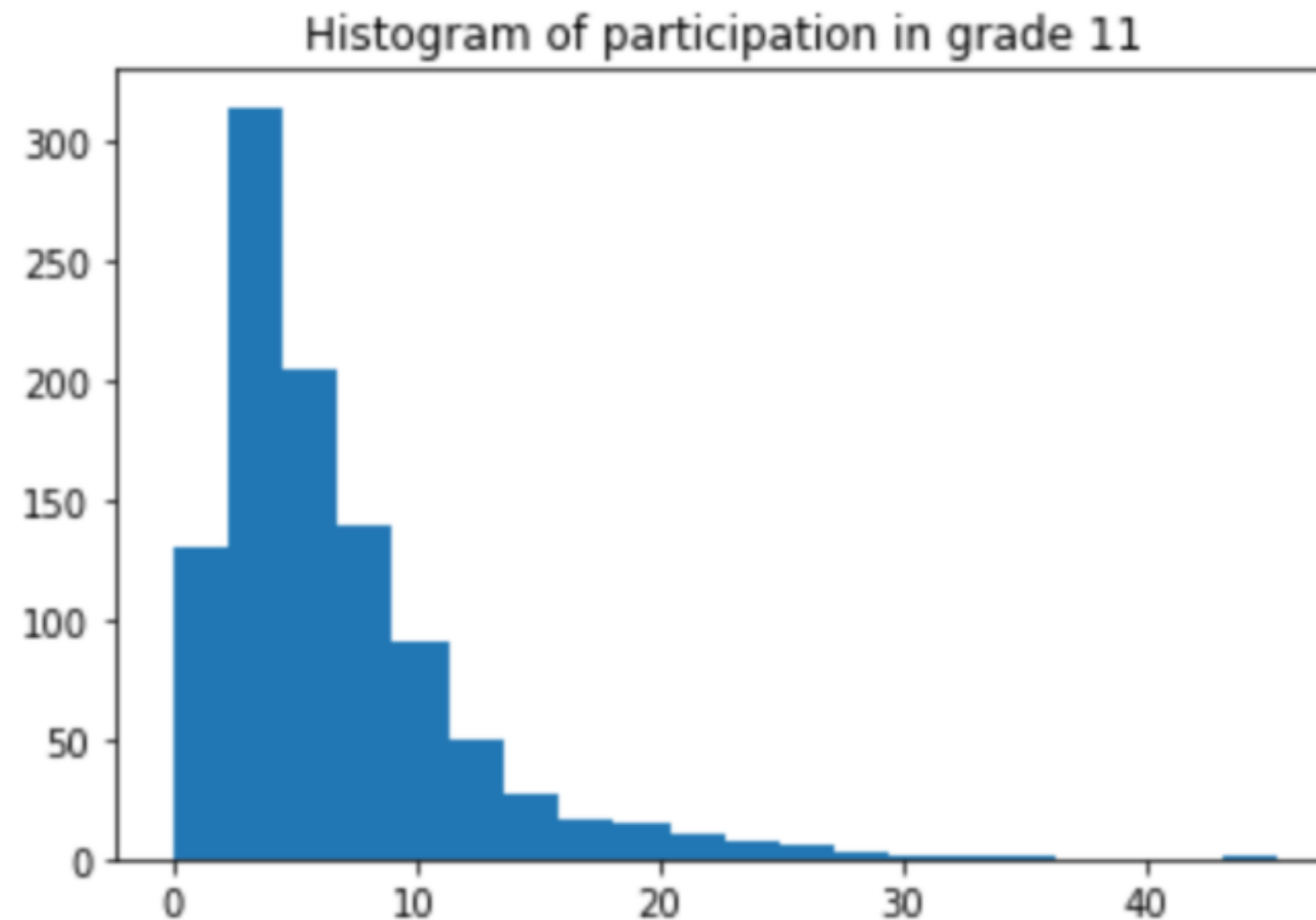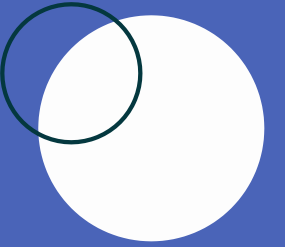
Skewed to the right.

ACT in California

Benchmarks

Figure 1.

Average Score in Reading for Grade 12

Figure 2.

Average Score in Science for Grade 12
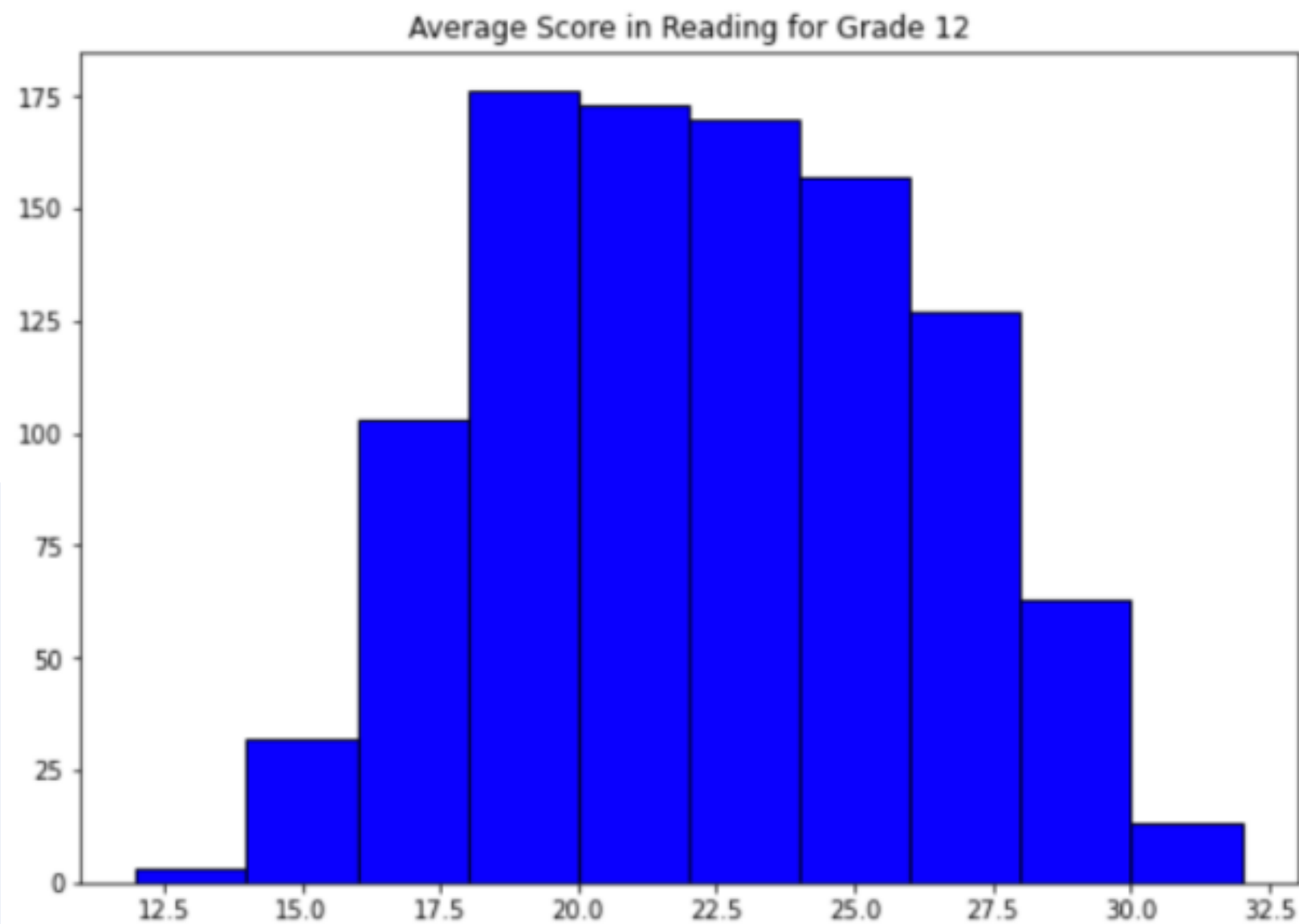
ACT in California

Benchmarks

Figure 3.

Composite Scores Greater than 21 for Grade 12

Figure 4.

Average Score in Math for Grade 12

The Princeton Review®
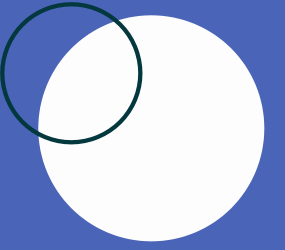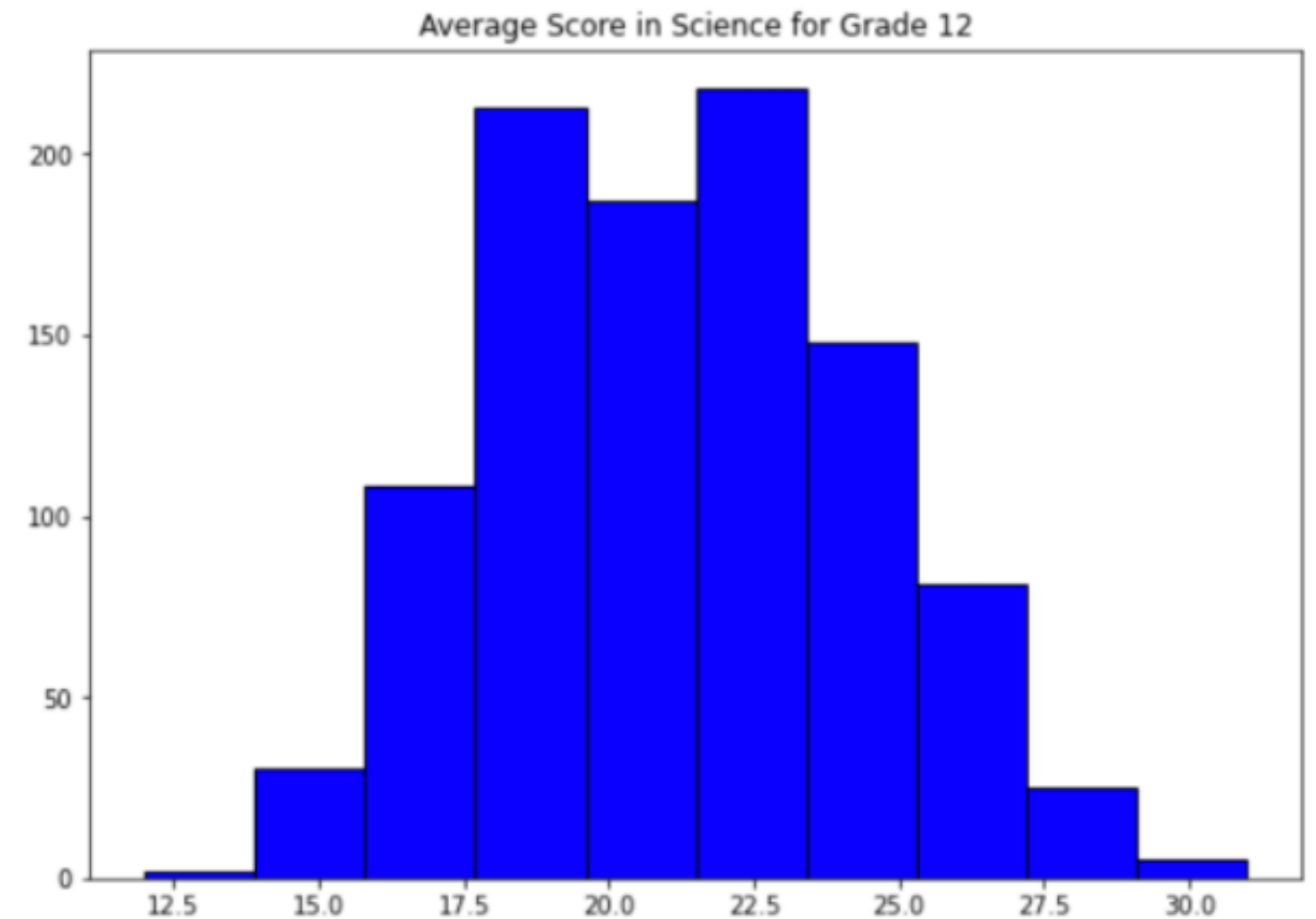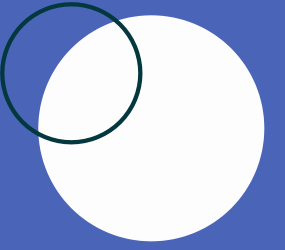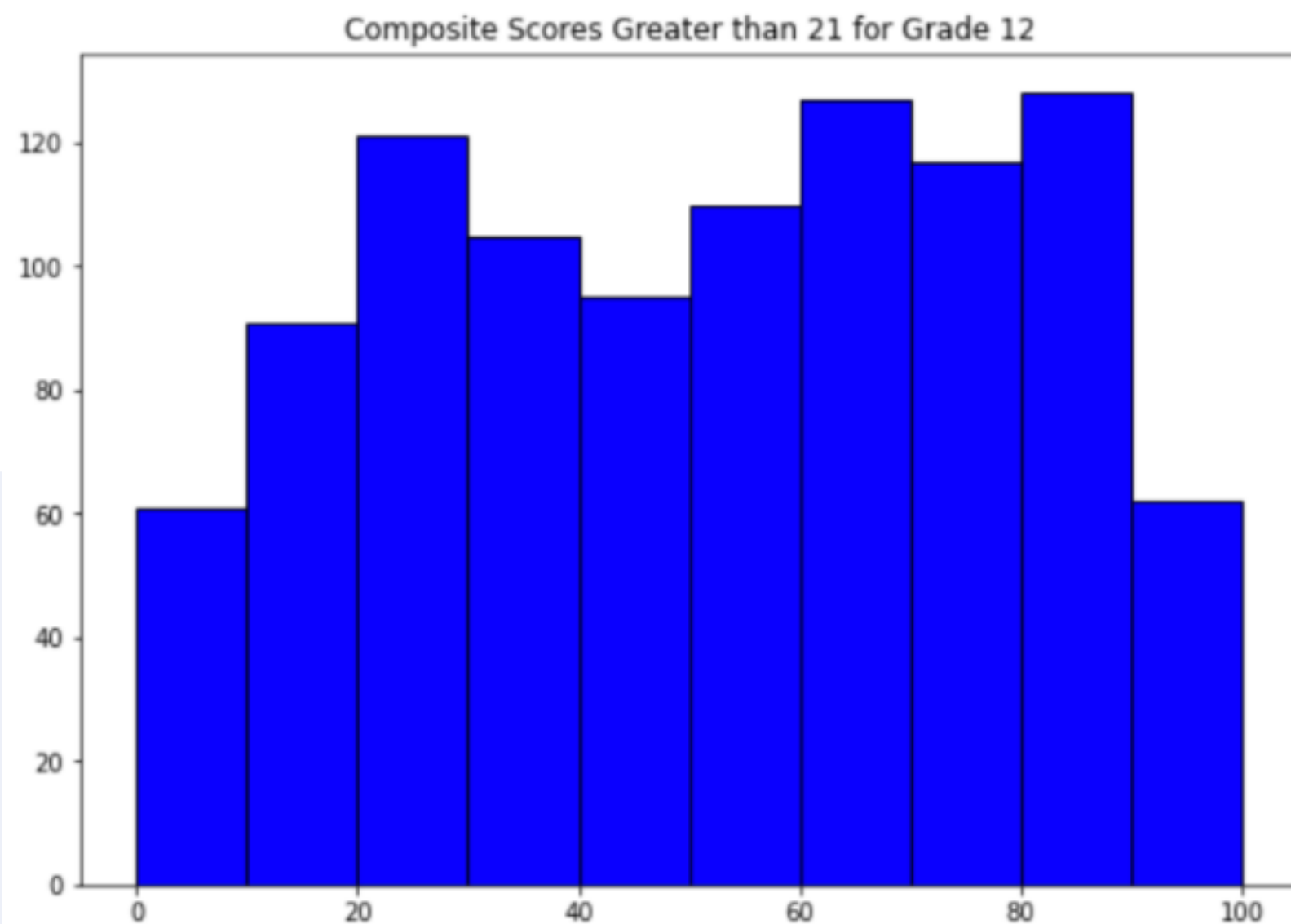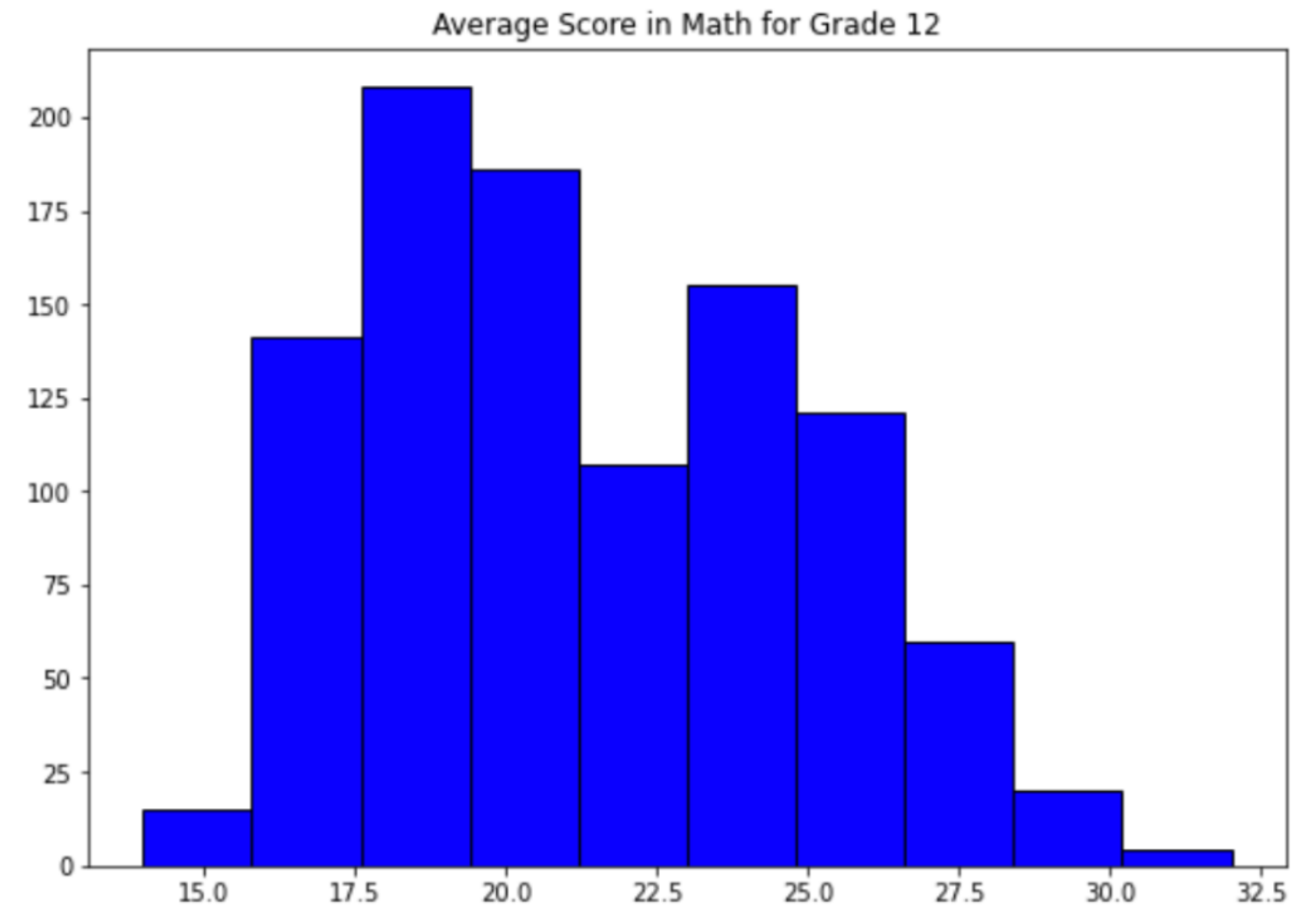
How can we help ?

California has a strong benchmark for reading, writing, and english based sections but has room to improve in math.

With the UC system and other public institutions making the SAT optional we can expect the participation rate and overall scores to drop.

My recommendations:

- Lower our Tutor/Test prep's costs to make it more accessible to students.
  - Will be able to compete with Khan Academy which is free
- Develop a ranking system (student has the choice to opt out) which will encourage and motivate students to climb the ladder.
- Provide the universities with the opportunity to observe the student's evolution, in order to assess performance in both a testing and non-testing environment (student may opt out).
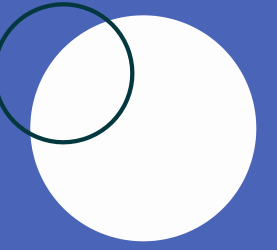
Thank you.

Do you have any questions?

ABDELJALIL KABBAJ