

## 20.10: SAT and College GPA

### Learning Objectives

- Predicting college GPA from high school scores

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### Overview

When deciding whether to admit an applicant, colleges take lots of factors, such as grades, sports, activities, leadership positions, awards, teacher recommendations, and test scores, into consideration. Using SAT scores as a basis of whether to admit a student or not has created some controversy. Among other things, people question whether the SATs are fair and whether they predict college performance.

This study examines the SAT and GPA information of 105 students who graduated from a state university with a B.S. in computer science. Using the grades and test scores from high school, can you predict a student's college grades?

### Questions to Answer

Can the math and verbal SAT scores be used to predict college GPA? Are the high school and college GPAs related?

### Design Issues

The conclusions from this study should not be generalized to students of other majors.

### Descriptions of Variables

Table 20.10.1 : Description of Variables

Variable	Description
high_GPA	High school grade point average
math_SAT	Math SAT score
verb_SAT	Verbal SAT score
comp_GPA	Computer science grade point average
univ_GPA	Overall university grade point average

### Data Files

SAT.xls

### Links

Want a job? Hand over your SAT results! Is the SAT a fair test?

### References

- None

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