

SAT Performance (Part II)

In this Task you will continue your investigation of the four questions we posed about one high school's SAT scores in Chapter 23.

1. What is the mean SAT-Math score at this high school?
2. How do these students' SAT Math scores stack up against the rest of the state?
3. Is there a significant difference between Verbal and Math scores for these students?
4. Nationally males tend to have higher Math scores than females. Is that true at this high school, too?

You should still have your copy of data from the SAT Score Roster sent to the high school by the College Board. It shows gender, Verbal scores, and Math scores, for 303 students in a recent graduating class.

Again you will not use all of these data, just a sample of 20 – 30 students.

Your new assignment: investigate the last two questions posed above.

- Use a sample of these students. It may be the same sample you used previously, or you may draw a new one, carefully explaining your procedure.
- Determine whether your sample provides statistical evidence that Verbal and Math scores differ for students at this high school.
- Determine whether your sample provides statistical evidence that males have higher Math scores than females at this school.
- Prepare a written report that includes complete demonstrations of the statistical procedures you used and your conclusions (in context, of course).