

Homework for Chapter 40: Statistics and Survey Design

From *Decoding the Digital SAT*

Homework includes questions from the following College Board tests:

Curvebreakers Practice Test #1, Section 2

Module 1: none

Module 2: 21

Curvebreakers Practice Test #2, Section 2

Module 1: 7

Module 2: none

Curvebreakers Practice Test #1, Section 2

Module 2: 21

21

The psychology department of a school conducted a study on 20 random students in a third grade class of 58 students. 20 of the students were then offered a supplement. The study found that 15 of these students did better in their end-term exams compared to those who did not take the supplements. Which of the following statements can best be concluded from the above study?

- A) Students who take supplements do better on exams.
- B) Students who do not take supplements do not do well on their exams.
- C) Supplements improve students' performance in their exams.
- D) No conclusion can be drawn about the cause-and-effect relationship between test taking and supplement taking.

Curvebreakers Practice Test #2, Section 2

Module 1: 7

7

A researcher found the mean mass of all cheetahs in a park. He found that the mean mass of all cheetahs in the park is between 120 *lbs* and 182 *lbs*. What is the value of the margin of error for the mean mass of the cheetahs in the park?