Homework Solutions
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Exercise 6

(a) I would select a simple random sample of sophomores and, independently, select a simple random sample of freshmen. I would ask each student how many times he had sought the advice of his advisor in the past year. Then I would compare the averages of the two groups.

(b) I would select a group of people who had not had the Kaplan prep course and I would administer to them the SAT test and record their scores. Then I would put them all through the prep course and then give them the SAT test again. I would record the *change in score* for each individual and test whether that change was 0 or was it greater than 0. This would be a paired sample.

(c) I would select a sample of 18-year-old twins. For each pair of twins, I would measure their heights and take the difference: first-born height − second-born height and see whether the difference was 0 or was greater than 0.