1. The amount of time it takes a student to walk from her home to class has a skewed right distribution with a mean of 15 minutes and a standard deviation of 2.4 minutes. If times were collected from 50 randomly selected walks, describe the distribution of .
2. The average score of all golfers for a particular course has a mean of 71 and a standard deviation of 3. Suppose 36 golfers played the course today. Find the probability that the average score of the 36 golfers exceeded 72.
3. SAT verbal scores are normally distributed with a mean of 430 and a standard deviation of 120 (based on data from the College Board ATP). Consider the following two problems, which appear at a glance to be very similar. Which one requires the application of the Central Limit Theorem, and in what way does the solution process differ between the two problems?
4. If a student is randomly selected, what is the probability that his or her score is above 500?
5. If a sample of 35 students is selected randomly, what is the probability that the sample mean will be above 500?