Answers to Odd-Numbered Exercises

- No. The generated numbers between 2 and 12 would be equally likely, but they are not equally likely with real dice.
- Yes, it does. Each of the 365 birthdays has the same chance of being selected, and the cards are replaced, so it is possible to select the same birthday more than once.
- Randomly generate 50 random numbers, with each number between 1 and 100. Consider the numbers 1 through 95 to be adults who recognize the brand name of McDonald's, while the numbers 96 through 100 represent adults who do not recognize McDonald's.
- Randomly generate a number between 1 and 1000. Consider an outcome of 1 through 528 to be
 a free throw that is made, and consider an outcome of 529 through 1000 to be a free throw that is
 missed.
- a. Answer varies.
 - b. It would be unlikely to randomly select 50 consumers and find that about half of them recognize McDonald's.
- 11. a. Answer varies.
 - b. It would be unlikely for O'Neal to make all of five free throws in a game.
- The exact answer is 0.5, so an answer from a simulation should be around 0.5. Such runs are not unlikely.
- 15. For the simulation, generate 152 random numbers between 0 and 1 inclusive. Sum the results to find the number of boys. Repeating the simulation should show that a result of 127 boys is unlikely, suggesting that the YSORT method is effective.
- With switching, P(win) = 2/3. With sticking, P(win) = 1/3.
- 19. No; no

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