CHAPTER 12 Extra Practice

Skills

- **Lesson 12-1** You roll a number cube. Find each probability.
 - 1. rolling a 2

- 2. rolling a 3 or 5
- **3.** rolling a 2, 4, or 6

Lesson 12-2

4. A quality control engineer at a factory inspected 300 glow sticks for quality. The engineer found 15 defective glow sticks. What is the experimental probability that a glow stick is defective?

The number of wins and losses for basketball teams are shown. Find each experimental probability.

5. Kingwood, Humble, Texas Wins: 37, Losses: 4 Find *P*(Win).

- **6.** Westchester, Los Angeles, Calif Wins: 25 Losses: 3 Find *P*(Loss).
- Lesson 12-3 Make a table to show the sample space for each situation. Then find the number of outcomes.
 - 7. You toss three coins.
 - **8.** You spin a number 1 to 6 and toss a coin.
 - **9.** You choose one letter from each of the two sets of letters E, F, G, H and A, B, C.
 - **10.** You toss two coins and spin a spinner with three congruent sections colored red, white, and blue. Draw a tree diagram to find the sample space. Then find P(2 heads, then blue).
- **Lesson 12-4** A bag contains 6 green marbles, 8 blue marbles, and 3 red marbles. Find P(B) after A has happened.
 - **11.** *A*: Draw a green marble. Keep it. *B*: Draw a red marble.
- **12.** *A*: Draw a blue marble. Replace it. *B*: Draw a red marble.
- Lessons 12-5 and 12-6 State whether the situation is a permutation or a combination. Then answer the question.
 - **13.** In how many ways can a committee of 2 be chosen from 5 members?
 - **14.** In how many ways can a president and a treasurer be selected from a club of 5 members?