

27. **CHALLENGE** You have 5 tickets to a play. You invite 4 friends to see the play. You hand out the tickets at random. One ticket is for an aisle seat, and the other tickets are for the next 4 seats in the row.
- What is the probability that you will get the aisle seat?
  - What is the probability that you will get the aisle seat and your best friend will get the ticket for the seat next to you?
  - Explain* how you could solve the problem in part (b) using permutations.



## MIXED REVIEW FOR TAKS

**TAKS PRACTICE** at classzone.com

### REVIEW

Lesson 13.1;  
TAKS Workbook

28. **TAKS PRACTICE** A spinner was spun 32 times. The results are shown in the table below. All sections of the spinner have the same area.

**Spinner Results**

Yellow	7
Green	11
Red	6
Blue	8



Which color on the spinner has the same experimental probability as theoretical probability? **TAKS Obj. 9**

- Ⓐ Yellow      Ⓑ Green      Ⓒ Red      Ⓓ Blue

## QUIZ for Lessons 13.1–13.4

- MARBLES** A bag contains 16 red marbles and 8 white marbles. You select a marble at random. (p. 843)
  - What is the probability that you select a red marble?
  - What are the odds in favor of selecting a red marble?
- PASSWORD** The password for an e-mail account is the word FISH followed by a 3-digit number. The 3-digit number contains the digits 1, 2, and 3. How many different passwords are possible? (p. 851)
- SHUFFLE** A CD plays on random shuffle. The CD has 12 songs on it. Your CD player selects a song at random, plays it, then selects a second song at random. No song is repeated until every song has been played. What is the probability that song 3 is played first and song 1 is played second? (p. 851)

**Evaluate the expression.**

- ${}_5P_4$  (p. 851)
  - ${}_8P_5$  (p. 851)
  - ${}_5C_2$  (p. 856)
  - ${}_8C_5$  (p. 856)
8. **NUMBER TILES** Tiles numbered 1–30 are placed in a bag. You select a tile at random. Find the probability that you select an odd number or a prime number. Are the events mutually exclusive or overlapping? *Explain.* (p. 861)

