

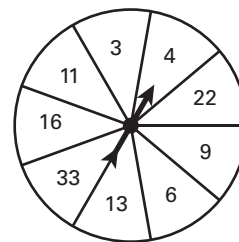
**LESSON**  
**11.1****Practice C***For use with the lesson "Find Probabilities and Odds"*

**Find the number of possible outcomes in the sample space. Then list the possible outcomes.**

1. You roll an 8-sided number cube and toss two coins.
2. You toss four coins.

**In Exercises 3–6, refer to the spinner shown. The spinner is divided into sections with the same area.**

3. What is the probability that the spinner does not stop on a prime number?
4. You spin the spinner 24 times. It stops on a multiple of 11 three times. What is the experimental probability of stopping on a multiple of 11?
5. What are the odds against stopping on a multiple of 4?
6. What are the odds in favor of stopping on a prime number?



7. A bag holds yellow, blue, and red marbles. You randomly draw a marble from the bag. The odds in favor of drawing a yellow marble are 18:42.
  - a. There are fewer than 100 marbles in the bag. How many marbles are in the bag? *Justify* your answer.
  - b. The probability of drawing a blue marble is 0.6. What is the probability of drawing a red marble? *Explain* how you found your answer.
8. **Meteorites** The table shows the areas of the seven continents on Earth. The total area of Earth is about  $1.97 \times 10^8$  square miles.

| Continent               | Asia       | Africa     | N. America | S. America | Antarctica | Europe    | Australia |
|-------------------------|------------|------------|------------|------------|------------|-----------|-----------|
| Area (mi <sup>2</sup> ) | 16,966,000 | 11,706,000 | 9,417,000  | 6,884,000  | 5,100,000  | 4,063,000 | 2,968,000 |

- a. What is the probability that a meteorite will not fall on one of the continents? Round your answer to the nearest hundredth.
  - b. What is the probability that a meteorite will fall on Antarctica?
  - c. What are the odds in favor of a meteorite falling on Asia?
  - d. What are the odds against a meteorite falling on North America or South America?
9. **Music** A survey asked students to name the type of music of the last CD they bought. The circle graph shows the results of the survey.
    - a. What is the probability that a randomly selected student chose alternative or rock as his or her last CD bought?
    - b. What are the odds in favor of a randomly selected student choosing rap as his or her last CD bought?
    - c. What are the odds against a randomly selected student choosing hip hop as his or her last CD bought?

