## SKILL PRACTICE

## EXAMPLE 1

on p. 843
for Exc. 3-6

EXAMPLE 2
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for Exc. 7-8

EXAMPLE 3
on p. 845
for Exc. 9-10

EXAMPLE 4
on p. 845
for Exc. 11-14

1. VOCABULARY Copy and complete: A number that describes the likelihood of an event is the $\qquad$ of the event.
2. WRITING Explain how the probability of an event differs from the odds in favor of the event when all outcomes are equally likely.

SAMPLE SPACE In Exercises 3-6, find the number of possible outcomes in the sample space. Then list the possible outcomes.
3. A bag contains 4 red cards numbered $1-4,4$ white cards numbered $1-4$, and 4 black cards numbered $1-4$. You choose a card at random.
4. You toss two coins.
5. You roll a number cube and toss three coins.
6. You roll two number cubes.

PROBABILITY AND ODDS In Exercises 7-13, refer to the spinner shown. The spinner is divided into sections with the same area.
7. What is the probability that the spinner stops on a multiple of 3 ?
8. ERROR ANALYSIS Describe and correct the error in finding the probability of stopping on a multiple of 9 .


$$
\frac{\text { Number of favorable outcomes }}{\text { Total number of outcomes }}=\frac{2}{10}=\frac{1}{5}
$$

9. You spin the spinner 30 times. It stops on 12 three times. What is the experimental probability of stopping on 12 ?
10. You spin the spinner 10 times. It stops on an even number 6 times. What is the experimental probability of stopping on an even number?
11. What are the odds in favor of stopping on a multiple of 4 ?
12. What are the odds against stopping on a number less than 12 ?
13. ERROR ANALYSIS Describe and correct the error in finding the odds in favor of stopping on a multiple of 3.

Odds in favor of a multiple of $3=\frac{\text { Number of favorable outcomes }}{\text { Total number of outcomes }}=\frac{9}{10}$ or $9: 10$

14. TAKS REASONING The odds in favor of an event are $5: 8$. What are the odds against the event?
(A) $3: 8$
(B) $8: 3$
(C) $5: 8$
(D) $8: 5$
15. TAKS REASONING Describe a real-world event whose probability is 0 . Describe another real-world event whose probability is 1 .

