Name _____ Date _____

LESSON 11.1

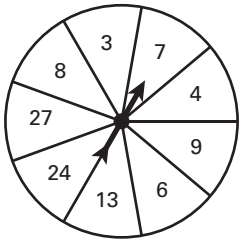
Practice B

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. A bag contains 6 blue cards numbered 1–6 and 8 red cards numbered 1–8. You choose a card at random.
2. You roll one 4-sided number cube and toss two coins.
3. You roll two 6-sided number cubes.

In Exercises 4–9, refer to the spinner shown. The spinner is divided into sections with the same area.



4. What is the probability that the spinner stops on an even number?
5. What is the probability that the spinner stops on an odd number?
6. You spin the spinner 24 times. It stops on 27 twice. What is the experimental probability of stopping on 27?
7. You spin the spinner 30 times. It stops on a multiple of 3 five times. What is the experimental probability of stopping on a multiple of 3?
8. What are the odds in favor of stopping on a multiple of 4?
9. What are the odds against stopping on a multiple of 6?

10. **Favorite Spectator Sport** A survey asked a total of 180 students in your school about their favorite spectator sports. The table shows the results of the survey.

Sport	Basketball	Soccer	Football	Baseball	Volleyball	Wrestling	Hockey
Number of students	40	20	45	20	16	18	21

   a. What is the probability that a randomly selected student who participated in this survey chose football as his or her favorite spectator sport?
   b. What is the probability that a randomly selected student who participated in this survey chose wrestling or hockey as his or her favorite spectator sport?
   c. What are the odds in favor of a randomly selected student who participated in this survey choosing basketball as his or her favorite spectator sport?

11. **Movies** A local movie theater did a survey of students to determine their favorite types of movies. The circle graph shows the results of the survey.
   a. What is the probability that a randomly selected student chose science fiction as his or her favorite type of movie?
   b. What is the probability that a randomly selected student chose drama or comedy as his or her favorite type of movie?