

# Pretest

**Find the total number of outcomes in each situation**

1. choosing a number on a number cube and tossing a coin
2. choosing one meat from chicken, beef, or pork; either a baked potato or hash browns; a vegetable of either green beans, carrots, or corn
3. choosing either a basketball or volleyball with color choices of red, white, orange, or blue

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

**A number cube is rolled. Find each probability.**

4.  $P$  (even number)
5.  $P$  (number less than 5)
6.  $P$  (2 or 3)
7.  $P$  (number greater than 1)

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

**Find the total number of possible outcomes.**

8. selecting a president, vice-president, and secretary from a class of 18 students
9. the number of different ways that five people can stand in a line
10. the number of different ways that first and second prizes can be determined from a total of 10 participants, assuming no ties

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

**State whether the events are independent or dependent.**

11. tossing a coin and rolling a number cube
12. selecting one marble from a hat, not replacing it, and then selecting a second marble
13. spinning a spinner with four equal sections and tossing a coin

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_