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Practice

Student Edition Pages 146–151

Counting Outcomes

Determine whether each is an outcome or a sample space for the given experiment.

- 1. (H, T, H); tossing a coin three times
- 2. (green, black); choosing one marble from a box of green and black marbles
- 3. (green, green), (green, black), (black, green), (black, black); choosing two marbles, one at a time, from a box of several green and several black marbles
- 4. (3, 1, 4, 5); rolling a number cube four times
- **5.** (1, 2, 3, 4, 5, 6); rolling a number cube once
- 6. (red, black); choosing two cards from a standard deck
- 7. (dime, penny); choosing two coins from a bag of dimes, nickels, and pennies
- 8. (dime, nickel, penny); choosing one coin from a bag of dimes, nickels, and pennies

Find the number of possible outcomes by drawing a tree diagram.

- 9. Suppose you can have granola or wheat flakes for cereal with a choice of strawberries, bananas, peaches, or blackberries.
- 10. Suppose you can travel by car, train, or bus to meet a friend. You can leave either in the morning or the afternoon.

Find the number of possible outcomes by using the Fundamental Counting Principle.

- 11. Suppose you toss a coin five times.
- 12. Suppose you can make an outfit from six sweaters, four pairs of jeans, and two pairs of shoes.