

Lesson 5 Skills Practice

Fundamental Counting Principle

Use the Fundamental Counting Principle to find the total number of outcomes in each situation.

1. rolling two number cubes and tossing one coin

$$2 \times 1 = 2$$

2. choosing rye or Bermuda grass and 3 different mixtures of fertilizer

$$2 \times 3 = 6$$

3. making a sandwich with ham, turkey, or roast beef; Swiss or provolone cheese; and mustard or mayonnaise

$$3 \times 4 = 12$$

4. tossing 4 coins

$$= 4$$

5. choosing from 3 sizes of bottled water and from distilled, filtered, or spring water

$$3 \times 3 = 9$$

6. choosing from 3 flavors and 3 sizes of juice

$$3 \times 3 = 9$$

7. choosing from 35 flavors of ice cream; one, two, or three scoops; and sugar or waffle cone

$$35 \times 8 = 208$$

8. picking a day of the week and a date in the month of April

$$3 \times 31 = 93$$

9. rolling 3 number cubes and tossing 2 coins

$$3 \times 2 = 6$$

10. choosing a 4-letter password using only 5 letters that may each be used more than once

$$4 \times 5 = 20$$

11. choosing a bicycle with or without shock absorbers; with or without lights; and 5 color choices

$$5 \times 4 = 20$$

12. a license plate that has 3 numbers from 0 to 9 and 2 letters where each number and a letter may be used more than once