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 72 outcomes
- 2. choosing rye or Bermuda grass and 3 different mixtures of fertilizer 6 outcomes
- 3. making a sandwich with ham, turkey, or roast beef; Swiss or provolone cheese; and mustard or mayonnaise 12 outcomes
- 4. tossing 4 coins 16 outcomes
- **5.** choosing from 3 sizes of bottled water and from distilled, filtered, or spring water 9 outcomes
- **6.** choosing from 3 flavors and 3 sizes of juice 9 outcomes
- 7. choosing from 35 flavors of ice cream; one, two, or three scoops; and sugar or waffle cone 210 outcomes
- **8.** picking a day of the week and a date in the month of April 210 outcomes
- **9.** rolling 3 number cubes and tossing 2 coins 864 outcomes
- 10. choosing a 4-letter password using only 5 letters that may each be used more than once 625 outcomes
- 11. choosing a bicycle with or without shock absorbers; with or without lights; and 5 color choices 20 outcomes
- 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 676,000