

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