

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
6. choosing from 3 flavors and 3 sizes of juice
7. choosing from 35 flavors of ice cream; one, two, or three scoops; and sugar or waffle cone
8. picking a day of the week and a date in the month of April
9. rolling 3 number cubes and tossing 2 coins
10. choosing a 4-letter password using only 5 letters that may each be used more than once
11. choosing a bicycle with or without shock absorbers; with or without lights; and 5 color choices
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