

Homework

Draw a tree diagram for each situation. Then verify the number of outcomes using the fundamental counting principal.

1. For dessert you can choose apple, cherry, blueberry, or peach pie to eat and milk or juice to drink. How many outcomes?
2. Show the outcomes for picking a vowel from the word APPLE and consonant from the word BOOK .
3. Judy tosses a coin 3 times. How many different outcomes are there?
4. John is taking a true/false quiz. There are 4 questions. How many outcomes?

Using only the fundamental counting principal, determine how many outcomes for each situation.

5. A store offers 3 brands of tee-shirts in 6 colors each in either long sleeve or short sleeve. How many different shirts are there?
6. A dice is rolled 5 times. How many possible rolls are there?
7. A three-digit lottery ticket using the numbers 0 to 9 has how many possible combinations?