

Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

## The Fundamental Counting Principle Worksheet

Use the Fundamental Counting Principle to answer the following problems.  
Draw a tree diagram for each.

1. Maria has the following choices to get dressed: a red, blue, or green shirt; jeans or sweatpants; shoes or sandals. How many different outfits can Maria wear with these choices?

\_\_\_\_\_

2. How many ways are there to arrange the words of the letter 'CAT'?

\_\_\_\_\_

3. There are 3 flavors of ice creams available- chocolate, strawberry, and vanilla. They come either in a cup or a cone. In how many ways are the different types of ice creams available?

\_\_\_\_\_

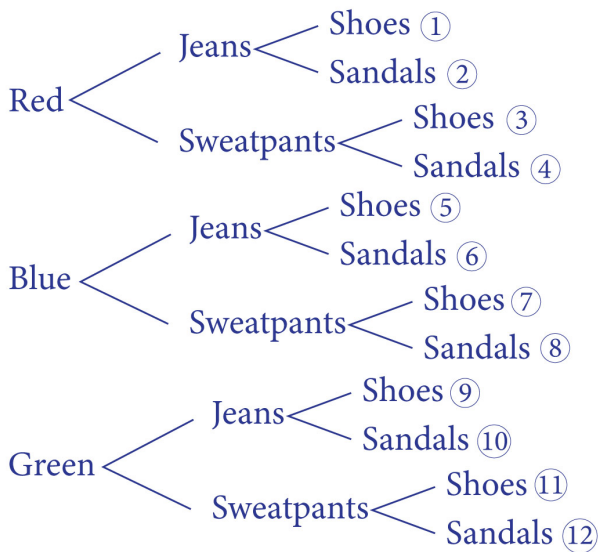
Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

## The Fundamental Counting Principle Worksheet

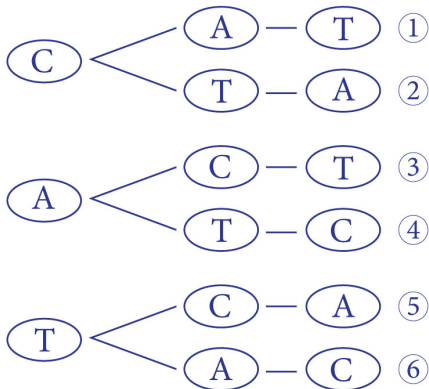
### Answer

1. Maria has the following choices to get dressed: a red, blue, or green shirt; jeans or sweatpants; shoes or sandals. How many different outfits can Maria wear with these choices?



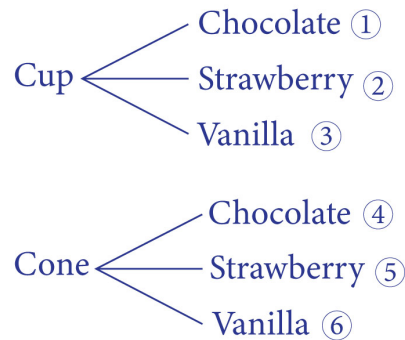
12 outfits

2. How many ways are there to arrange the words of the letter 'CAT'?



6 ways

3. There are 3 flavors of ice creams available- chocolate, strawberry, and vanilla. They come either in a cup or a cone. In how many ways are the different types of ice creams available?



6 ways