

Probability

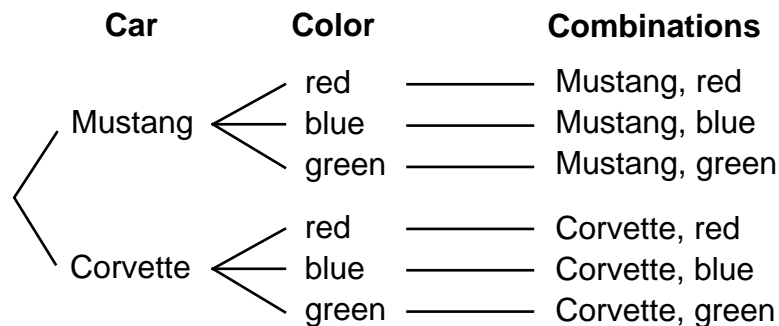
Skill 3 - 26I

Combinations

Directions: Read the word problem below. Make a tree diagram.

Example

A toy store has 2 model cars for sale. You can buy a Mustang or a Corvette, Each car is colored red, green or blue. How many different car and color combinations are possible? Make a list of all of the combinations of cars and colors.



There are 6 possible combinations.

1.

Gene has a pair of white tennis shoes and a pair of black tennis shoes. He also has 3 pairs of socks. He has a red pair, a green pair and a blue pair. How many different shoe and sock combinations are possible? Draw a tree diagram.

Use this space to work. Make a **tree diagram**.

Probability

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Directions: Read the word problem below. Make a tree diagram.

2.

Alan must choose an outfit for a picnic. He can choose a blue shirt or a red shirt. He can choose brown shorts, gray shorts or green shorts. How many different shirt and shorts combinations are possible? Draw a tree diagram.

Use this space to work. Make a **tree diagram**.

3.

Ryan is buying his lunch. He can choose a main item and a side item. He can choose pizza or a hamburger for his main item. The side item choices are nachos or fries. How many different lunch combinations are possible? Draw a tree diagram.

Use this space to work. Make a **tree diagram**.

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Directions: Read the word problem below. Make a tree diagram.

4.

Grace is buying a surfboard. She can choose a red, white or blue surfboard. She can choose orange, gold or purple stripes to decorate her surfboard. How many combinations are possible? Draw a tree diagram.

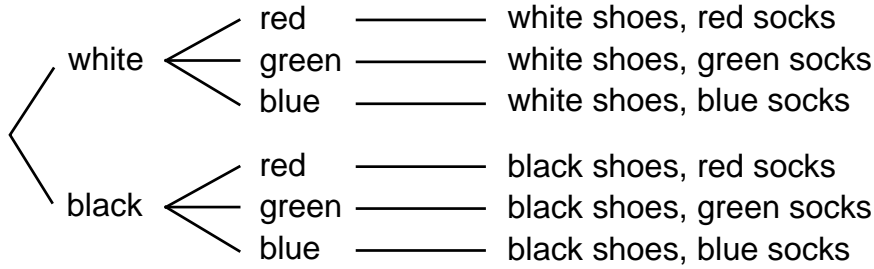
Use this space to work. Make a **tree diagram**.

5.

Rachel wants to buy a sundae. She can choose from 4 flavors of ice cream. The choices are vanilla, chocolate, strawberry, or peach. She can choose from 3 toppings. The choices are nuts, cherries, or sprinkles. How many combinations are possible? Draw a tree diagram.

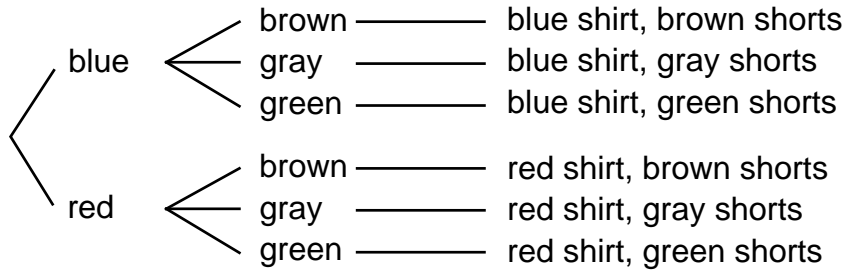
Use this space to work. Make a **tree diagram**.

1. tennis shoes socks combinations



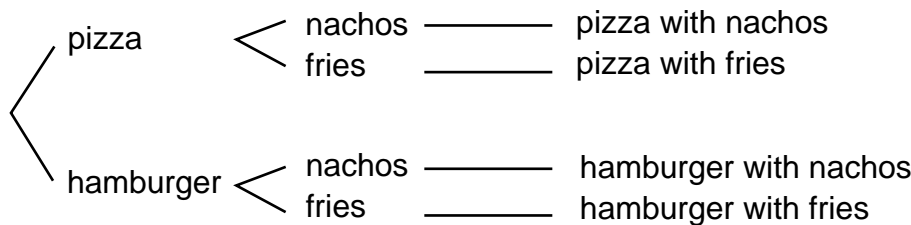
There are 6 possible combinations.

2. shirt shorts combinations



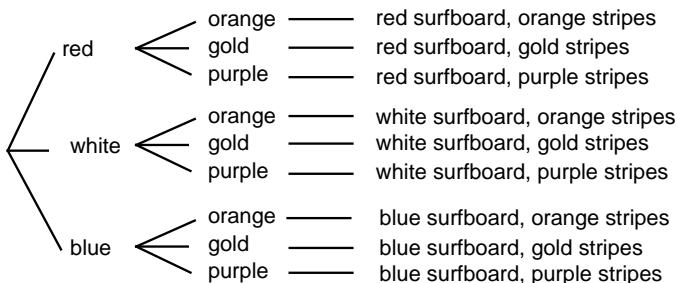
There are 6 possible combinations.

3. main item side item combinations



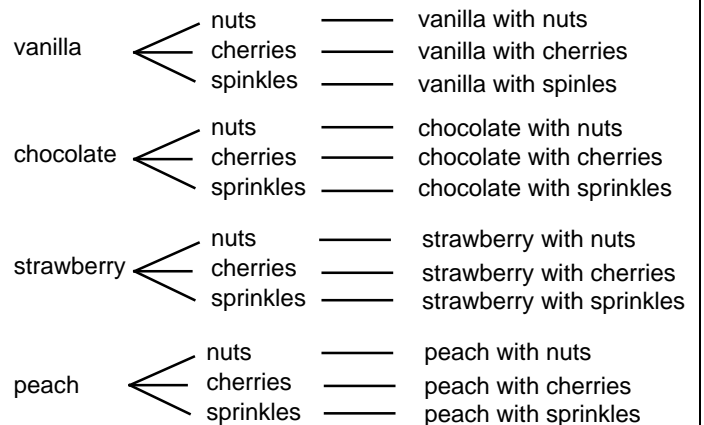
There are 4 possible combinations.

4. surfboard stripes Combinations



There are 9 possible combinations.

5. flavors toppings combinations



There are 12 possible combinations.