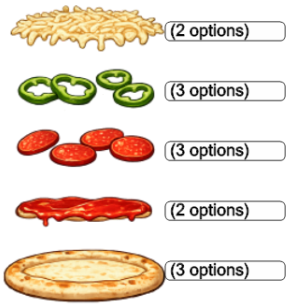
Name

Probability Fundamental Counting Principle - Image and Scenario Counts to Multiplication

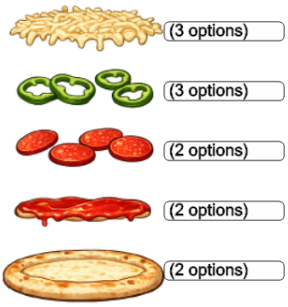
1



You are putting together a pizza. There are 3 crusts, 2 sauces, 3 meats, 3 vegetables, and 2 cheeses to choose from. Which multiplication gives the number of different pizzas you can make?

A	B
$4 \times 2 \times 3 \times 3 \times 2$	$2 \times 2 \times 3 \times 3 \times 2$

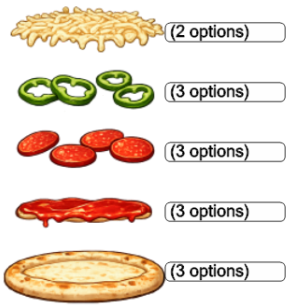
2



You are putting together a pizza. There are 2 crusts, 2 sauces, 2 meats, 3 vegetables, and 3 cheeses to choose from. Which multiplication gives the number of different pizzas you can make?

A	B
$1 \times 2 \times 2 \times 3 \times 3$	$2 + 2 + 2 + 3 + 3$

3



You are putting together a pizza. There are 3 crusts, 3 sauces, 3 meats, 3 vegetables, and 2 cheeses to choose from. Which multiplication gives the number of different pizzas you can make?

A	B
$3 + 3 + 3 + 3 + 2$	$4 \times 3 \times 3 \times 3 \times 2$

4

You are putting together a meal. There are 2 mains, 3 drinks, and 3 desserts to choose from. Which multiplication gives the number of different meals you can make?

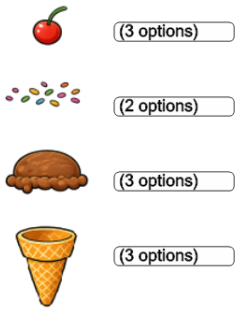
A	B
$2 + 3 + 3$	$3 \times 3 \times 3$

5

You are putting together an outfit. There are 2 shoe styles, 2 pants styles, 2 shirts, and 3 hats to choose from. Which multiplication gives the number of different outfits you can make?

A	B
$1 \times 2 \times 2 \times 3$	$3 \times 2 \times 2 \times 3$

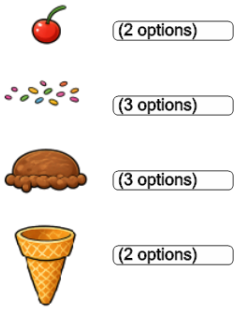
6



You are putting together an ice cream cone. There are 3 cones, 3 ice cream flavors, 2 sprinkle styles, and 3 toppings to choose from. Which multiplication gives the number of different ice cream cones you can make?

A	B
$2 \times 3 \times 2 \times 3$	$3 + 3 + 2 + 3$

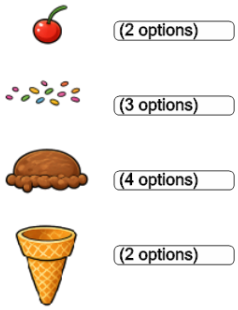
7



You are putting together an ice cream cone. There are 2 cones, 3 ice cream flavors, 3 sprinkle styles, and 2 toppings to choose from. Which multiplication gives the number of different ice cream cones you can make?

A	B
$2 \times 3 \times 3 \times 2$	$1 \times 3 \times 3 \times 2$

8



You are putting together an ice cream cone. There are 2 cones, 4 ice cream flavors, 3 sprinkle styles, and 2 toppings to choose from. Which multiplication gives the number of different ice cream cones you can make?

A	B
$2 \times 4 \times 3 \times 2$	$3 \times 4 \times 3 \times 2$