Combinations

MathApex

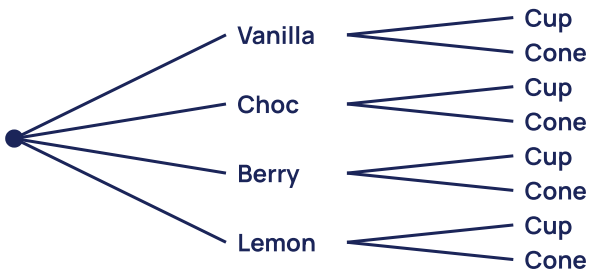
Name: _____ Date: _____

Watch video

From the video 2 flavors, cup or cone → **2 × 2 = 4 choices**

1 Now it's your turn!

4 flavors, in a cup or a cone: how many choices are there?

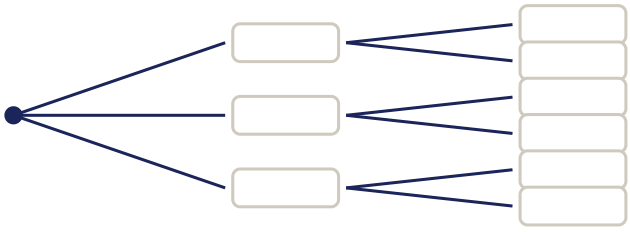


Each flavor can come in a cup or in a cone.

4 × 2 = ☐ choices

2 The tree diagram.

T-shirts: blue, green, red. Pants: short, long. Write in the boxes and count the paths.



☐ **choices**

3 The table.

Bread: white or brown. Topping: cheese, ham or jam. Write all the combinations in the table.

	Cheese	Ham	Jam
white			
brown			

Combinations: ☐

4 Words only.

a) 5 kinds of bread and 2 fillings. How many choices?

☐ × ☐ = ☐

b) 2 dice colours and 6 numbers. How many choices?

☐ × ☐ = ☐

5 Think backwards.

There are 12 choices and 4 flavors. How many serving types are there?

12 ÷ 4 = ☐ types

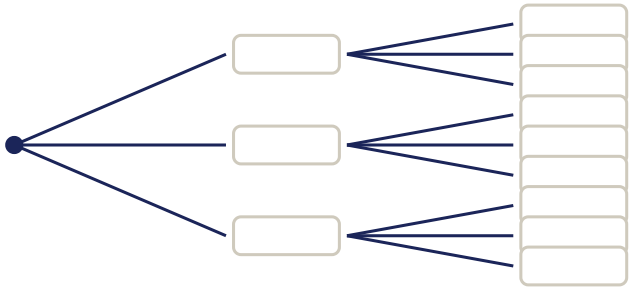
Brain teaser

An ice cream shop has 3 flavors to choose from, 2 serving types and 2 toppings. How many different ice creams can you order?

_____

_____

6 Your own tree diagram.



Think of 3 favourite foods and 3 drinks. Write them in the boxes.

Choices: ☐

MathApex

MATH STORY 77 · ANSWERS

Combinations

Watch video

1 **Now it's your turn!**

4 × 2 = 8 choices

2 **The tree diagram.**

3 × 2 = 6 choices

3 **The table.**

2 × 3 = 6 combinations

4 **Words only.**

5 × 2 = 10
2 × 6 = 12

5 **Think backwards.**

12 ÷ 4 = 3 types

★ **Brain teaser**

3 × 2 × 2 = 12 ice creams

6 **Tree diagram.**

3 × 3 = 9 choices

For parents and teachers: This worksheet goes with the video "Combinations" (Math Story 77, Grade 4). Combinations: number of first choices times number of second choices. A tree diagram and a table show all the paths.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**