

Weekly Maths Challenge!

Ice Cream Problem

The graphic shows an ice cream stand with a menu on the left. The menu lists six flavors with corresponding colored circles: Lemon (yellow), Strawberry (red), Vanilla (white), Peach (orange), Chocolate (brown), and Mint (green). Below the menu is a single scoop of ice cream. To the right of the menu are two horizontal lines for writing. A yellow box contains the question: "How many different two-scoop ice creams can be made?". At the bottom of the stand, the words "ICE CREAM" are written in large, bold, yellow letters.

To help you solve this problem, you could use lego bricks.

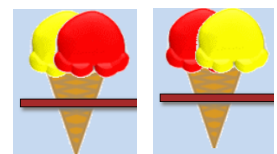


Each different colour could represent a different flavour. If you build each ice cream, then it will be easy for you to check if you already have that combination. Or you could use the interactive here:

https://www.transum.org/Software/SW/Starter_of_the_day/starter_november_r12.ASP

Hint: Try to think of a system, so that you find all the possibilities.

Remember, an ice cream isn't different if you turn it around and it makes the same combination. So these ice creams are the same:



Extra Challenge: How many combinations would there be if you only had 5 flavours? Or 4 flavours? Or 3 flavours? Can you spot any patterns?