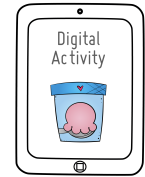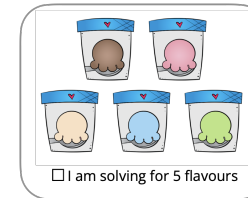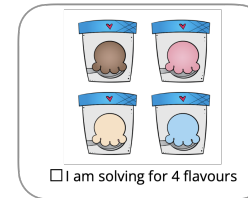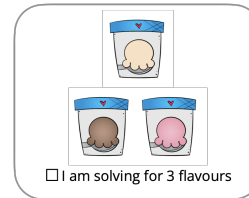MATHS QUEST **QR**

Ice Cream Maker - Challenge #1

'I always choose two different flavours.

Make all the different ice creams that I can choose from.'

☐ I am solving for 3 flavours

☐ I am solving for 4 flavours

☐ I am solving for 5 flavours

Digital Activity

Did you see how muddled your teacher became trying to make all the ice creams?

It might be helpful to have a system to use - or a plan to follow.

How can we take care to make sure there are no mistakes or double ups?

You might like to use colour, pictures, lines, arrows or boxes to create a sorting system.
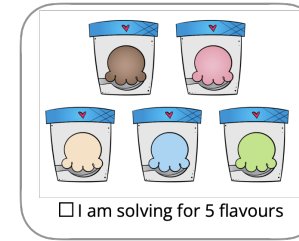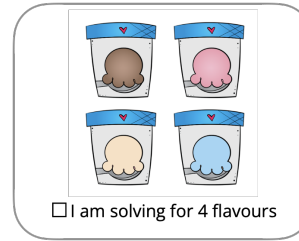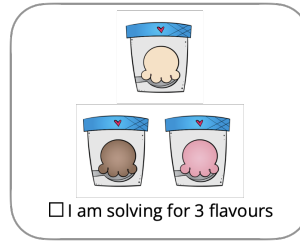
Name/s: _____

MATHS QUEST C1

Ice Cream Maker - Challenge #2

I always want some vanilla ice cream.

How many combinations can I make?

☐ I am solving for 3 flavours

☐ I am solving for 4 flavours

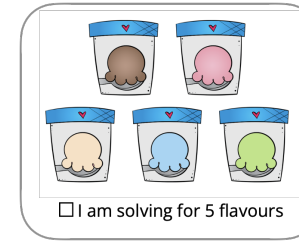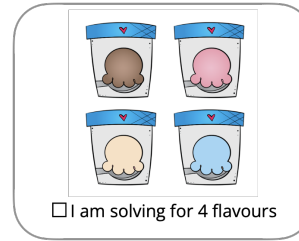☐ I am solving for 5 flavours
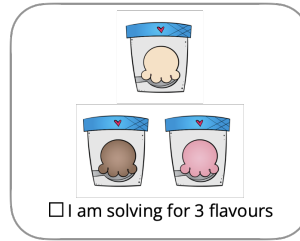
Digital Activity

Name/s: _____

MATHS QUEST

C2

Ice Cream Maker - Challenge #3

I always want a scoop of chocolate ice cream, and I never choose strawberry.

Can you make four different ice creams that I would enjoy?

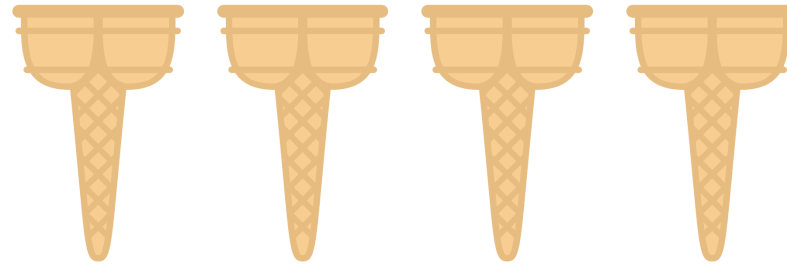☐ I am solving for 3 flavours

☐ I am solving for 4 flavours

☐ I am solving for 5 flavours

Digital Activity

Name/s: _____

MATHS QUEST

C3

I always want a scoop of strawberry ice cream.

How many ice cream combinations can I make?

Name/s: _____

MATHS QUEST 1

I never want a scoop of chocolate ice cream.

How many ice cream combinations can I make?

Name/s: _____

MATHS QUEST 2

I don't like chocolate ice cream.
Which ice creams won't I choose?

Name/s: _____

I only want ice creams that
have one flavour.

How many different ice
creams can I make?

You might **not** need all the cones.

Name/s: _____

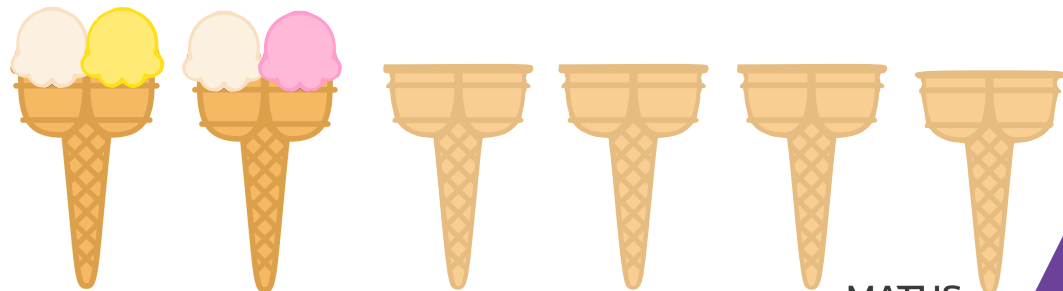I only like chocolate, strawberry and vanilla ice cream.
Which ice creams would I like to eat?

Name/s: _____

I like ice creams with at least one scoop of vanilla.

How many more ice creams can I make using these flavours?

You might **not** need all the cones.

Name/s: _____

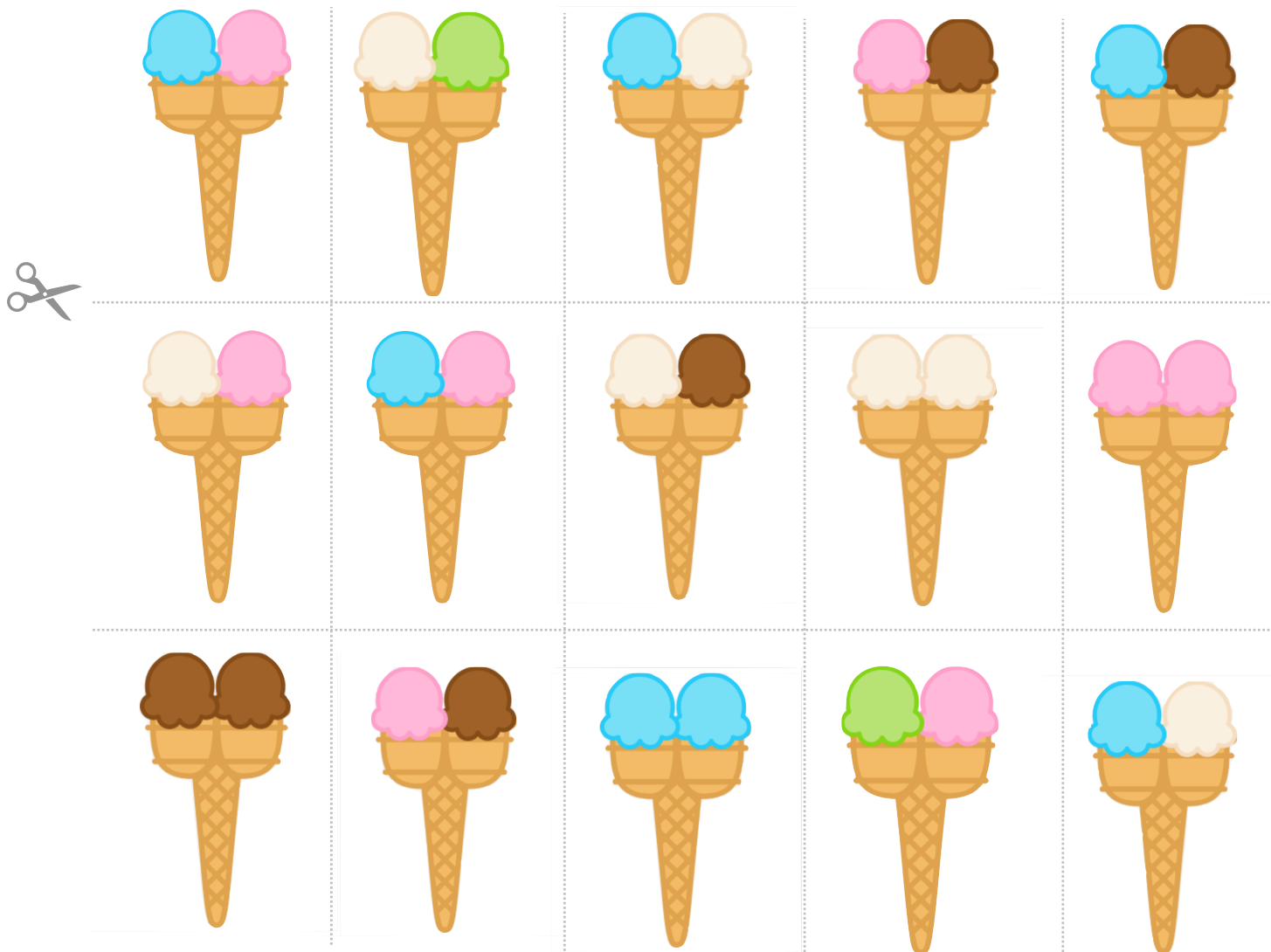If I have these four ice cream flavours, I can make 10 different double cones.

Cut out and organise the ice creams on page 7b. Which ones don't belong? Discuss why with your partner.

Organise the ten that do belong into a design that shows you've found all the possibilities.

MATHS
QUEST
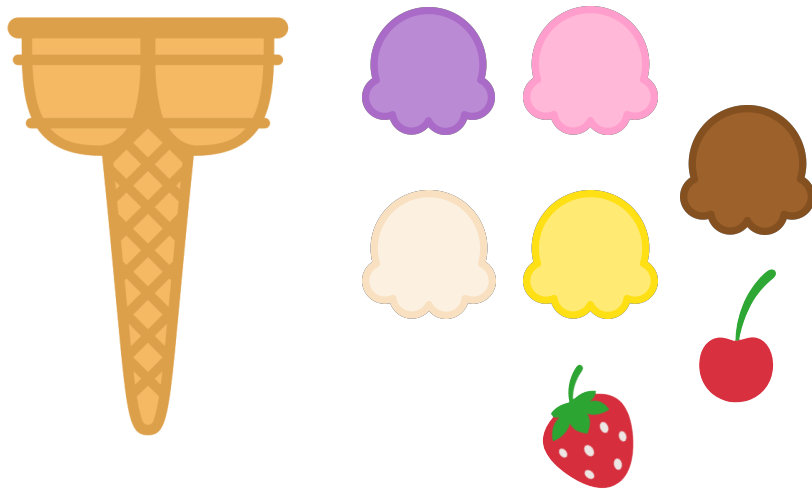
7a

Name/s: _____

MATHS QUEST 7b

Extra Challenge #1

I always choose two different flavours.

If I have a chocolate scoop I want a strawberry on top of it.

If I have a vanilla scoop I want a cherry on top of it.

How many combinations can I make with no fruit

Name/s: _____