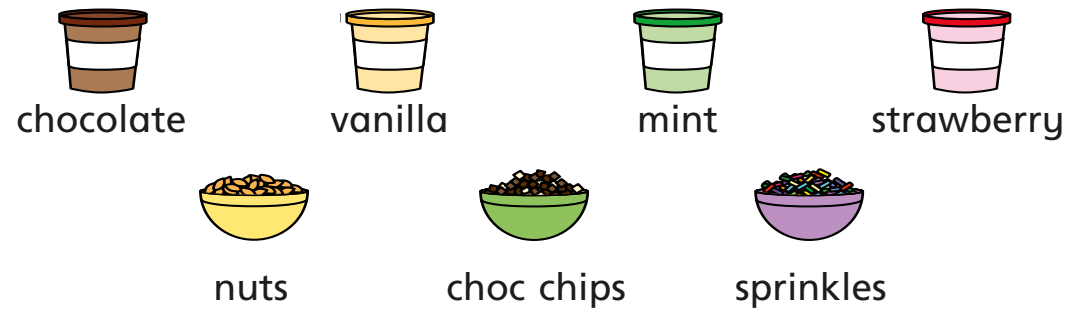


How many ways?

- 1** Dora is making ice creams.
She has 4 flavours and 3 toppings.



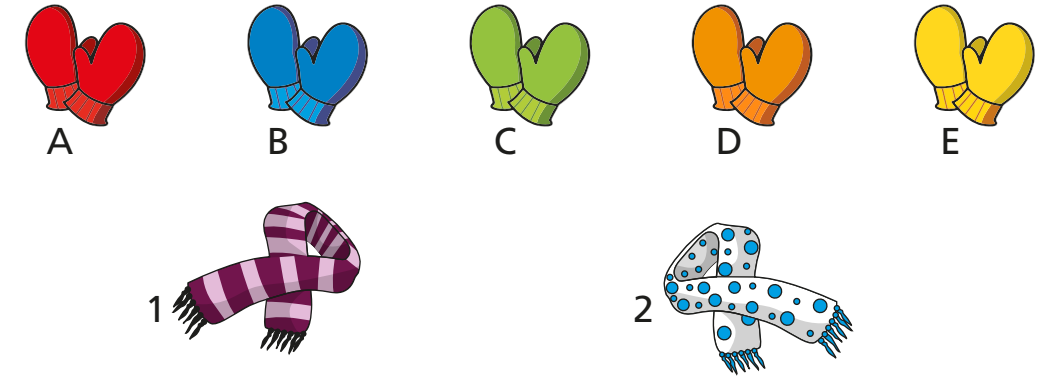
Dora chooses a flavour and a topping.

- a)** Complete the table to show the different combinations she could make.

Ice cream flavour	Topping
chocolate	nuts
chocolate	choc chips
chocolate	sprinkles

- b)** How did you work out the different combinations?
How do you know you have found them all?

- 2** There are 5 pairs of mittens and 2 scarfs.



Amir chooses a pair of mittens and a scarf.

- a)** List all the possible different combinations.

Mittens	Scarfs

- b)** How many different combinations of mittens and scarfs are there?

- c)** Are you sure you have found them all?
Compare with a partner.

- d)** What multiplication works out the number of combinations?

$$\square \times \square = \square$$

- 3 Whitney buys a snack and a drink.



chocolate



muffin



cookie



apple



juice



pop



milk



water

She says there are 8 combinations she could choose.

Do you agree? _____

Show how you know.



- 4 Teddy has 5 pairs of trousers.

He also has 4 shirts.

Each day he wears a shirt and a pair of trousers.

a) How many possible combinations does he have?

$$\square \times \square = \square$$

b) Teddy buys 2 more pairs of trousers.

How many possible combinations does he have now?

$$\square \times \square = \square$$

- 5 Jack and Alex are choosing food from a menu.

Starter	Main	Dessert
Soup	Burger	Ice cream
Cheese	Pizza	Brownie
Bread	Roast chicken	Fruit salad
	Egg and chips	
	Salad	
	Pie	

Jack chooses a starter and a main.

How many different combinations are there?

Alex chooses a starter, main and dessert.

How many different combinations are there?

- 6 Rosie is making a birthday card.

She uses a sheet of coloured card and sticks a shape on it.

She has 5 different shapes she can choose from.

She can make 40 different birthday cards in total.

How many different sheets of card does Rosie have?