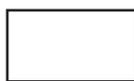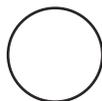**1)** Eliza is going to draw a coloured shape. She can choose from 4 different shapes and 2 different colouring pencils.

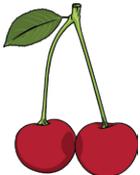green   blue

a) How many possible coloured shapes could she draw? Draw them below.

b) Complete the tables to show all the possible coloured shapes she could draw.

Shape	square	circle						
Colour	blue	blue	blue	blue				

2) Here are the different flavours and toppings at the ice cream parlour.

	Vanilla	Strawberry	Chocolate
Flavours			
	Cherry	Flake	Sprinkles
Toppings			

Jayden isn't sure which ice cream or which topping to get. List all the different possible combinations that he could choose.

_____

_____

_____

_____

Indoor Activities	**Outdoor Activities**

1) At after-school club, the children choose 1 indoor and 1 outdoor activity.

   a) How many different combinations of activities could they choose?

   _____ × _____ = _____

   There are _____ different combinations.

2) Robin can't ride a bike. How many different combinations of activities would he be able to choose? _____

3) Three children are discussing how to find how many different combinations of indoor and outdoor activities they could choose.

> You can list all the different possibilities in a table.

Saif

> You can multiply 4 and 3 to find the answer.

Robin

Isha

> You can add 4 and 3 to find the answer.

   a) Who is correct?

   _____

   b) Whose way is the best? Why?

   _____

   _____

1) **a)** Fill in each row of the table to show how many different types of pizzas Anna could make. She can only use 1 topping on each pizza.

Size of Pizza	Pizza Topping	Number of Different Pizzas
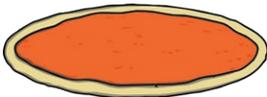
b) What pattern can you see in the answers?

_____

_____

c) Explain why this pattern exists.

_____

_____

_____

d) Use the pattern to work out how many different pizzas Anna could make with 10 different toppings and 3 different sizes to choose from.

_____

2) **a)** Finley can make 15 different possible pizzas. He can choose to use a small, medium or large pizza base. How many different toppings can he choose from?

_____

b) Lacey can make 24 different pizzas. How many different sizes of pizza and different toppings might she have to choose from? Find all the possibilities.

_____

_____

_____

_____

_____