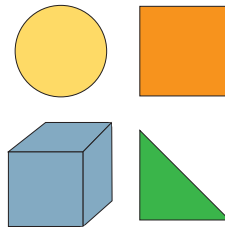


# Y1 Learning at home activity sheet #3

## Problem 1:

Hine, Henry, Pippa and Tui are looking at these shapes. Hine says, "The square is the odd one out." Henry says, "No, the circle is the odd one out!" Pippa says, "No, it is the box. It's a cube!" Hine says, "No the triangle is the odd one out." Who is right and why?



## Problem 2:

Find 3 coins or counters. Can you place them so that each one is touching every other one? Can you do this with 4 coins?

## Problem 3:

Karl has some toy cars and a box he is using for a garage. Two cars are parked outside the garage. A red car, a green car and a blue car are parked inside the garage. How many cars does he have altogether? What other ways could he park the cars?



## Spot the number:

Write the numbers from 1 to 9 down the side of a piece of paper. Go on a hunt around your house and try to find all the numbers. Put a tick beside each one you find. You can put more than one tick beside each. Which number did you find the most of?



## Pattern Challenge:

Draw or describe what will come next in each pattern.



1 2 1 2 1 2



Make up some patterns of your own, and challenge a family member to continue them.



## Fold and cut:

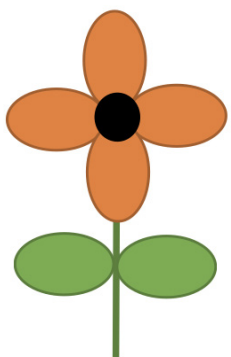
Fold a piece of paper in half. Cut out a shape from the side with the fold. Unfold the paper and see what shape the hole is. What shapes can you make? Can you make a circle? A square? A triangle?



# Y1 Learning at home activity sheet #3

Follow the instructions below:

1. Draw two more flowers the same as the one in the box below.
2. How many petals are there in total now?
3. How many leaves are there in total now?



Complete the fact families:

$2 + 2 = \square$

$4 - 2 = \square$

$3 + 3 = \square$

$6 - 3 = \square$

$4 + 4 = \square$

$8 - 4 = \square$

$5 + 5 = \square$

$10 - 5 = \square$

Write in the missing numbers:

	2	3		5	6	7		9	
--	---	---	--	---	---	---	--	---	--

1		3	4	5		7	8		10
---	--	---	---	---	--	---	---	--	----

1	2		4		6	7		9	10
---	---	--	---	--	---	---	--	---	----

1		3	4	5			8	9	
---	--	---	---	---	--	--	---	---	--

# Learning at home: Notes for whānau

When your child finishes each activity, ask them to add a mouth to the face to show how they felt about that activity.



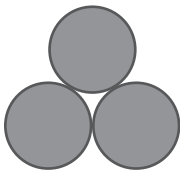
## Problem 1:

This is an interesting problem to discuss with your child. In a way there is no solution to this problem because each person is correct. There are things about each shape that are different to all of the others. How many can your child suggest for each?

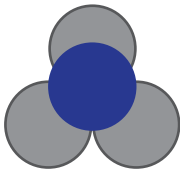
- The circle is the only curved shape, it's the only shape that would roll, it's the only yellow shape...
- The square is the only orange shape, it's the only shape with four corners...
- The cube is the only three-dimensional shape, it's the only blue shape, it's the only shape with six faces...
- The triangle is the only shape with three sides, it's the only shape with a 'pointy corner', it's the only shape with sides of different lengths...

## Problem 2:

If you place three coins in a triangle, each one will be touching the other two.



The trick to solving the problem with four coins is to put the fourth coin on top of the other three, then every coin will be touching every other one.



## Problem 3:

If Karl has two cars outside the box and three inside the box he has five cars altogether. Your child may come up with solutions to ways to place the cars that treat different colours as different (for example, "the green cars in the garage and the others outside it"), or they may just talk about the numbers of cars (for example, "one car in the garage and four outside it").

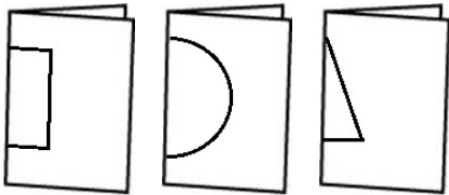
### Spot the number:

Your child will find numbers in lots of places around the house. Some places you may like to suggest include:

- Clocks
- Letterbox
- Food packaging
- Books
- Bathroom products
- Clothing/footwear

### Fold and cut:

Hopefully, with some experimentation, your child can work out how to cut out a square, a circle and a triangle. Possible answers are shown below:



### Pattern challenge:

The next items in the patterns are shown below.



1 2 1 2 1 2 1 2

