



Maths Week 5

We have attached a separate document that includes a variety of 2D shapes with information on how many sides and vertices (corners) each shape has.

Lesson 1

In this lesson we recap the name of 2D shapes and the vocabulary we use to describe them.

The activity for this lesson requires resources - these could be strips of paper, lolly sticks, pencils, sticks etc for creating different 2D shapes.

During this activity it is really helpful for your child to discuss the shapes they are making, and use the correct vocabulary.



- 1) Complete the sequence

5, 10, 15,

- 2) What is $20 \div 10$?

- 5) What's the time?

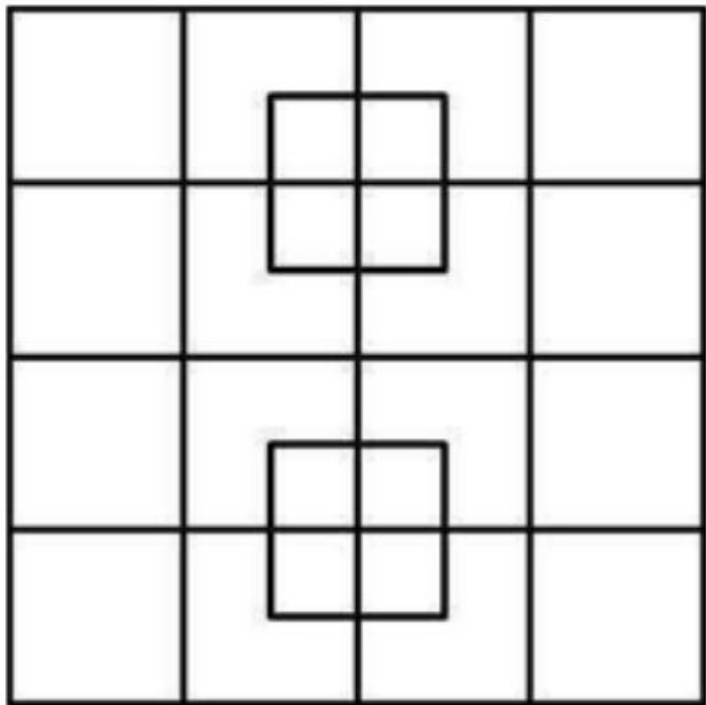
- 3) Tom has 5 bags of sweets.

There are 2 sweets in each bag.

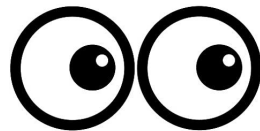
How many sweets are there altogether?

- 4) Find the sum of 4, 5 and 6

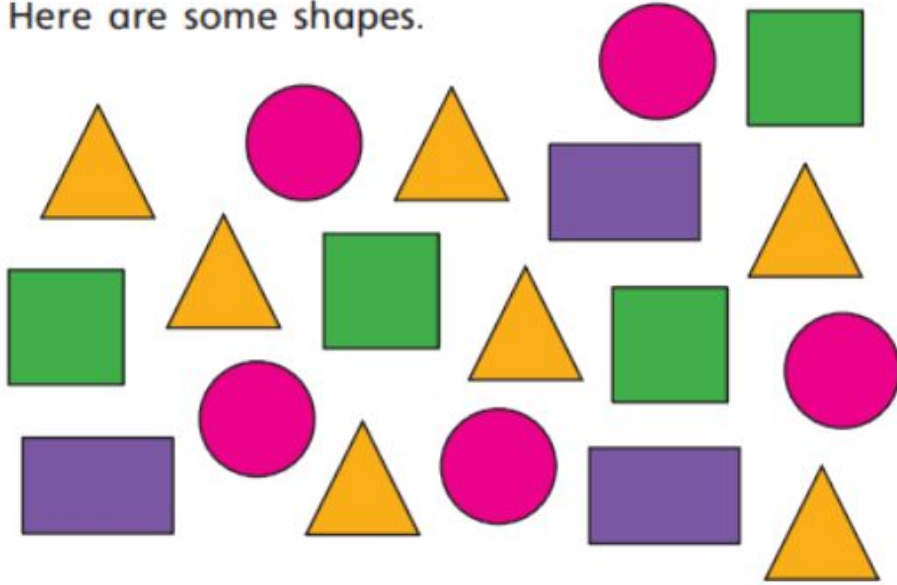
Warm up - How many squares can you see?



Use your sharp eyes!



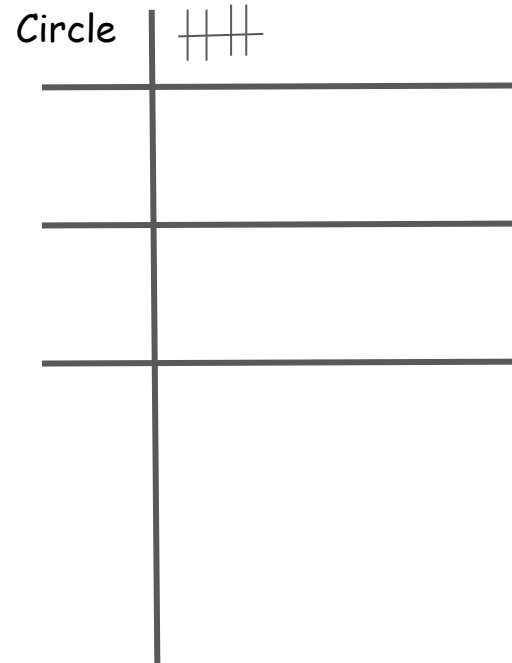
Here are some shapes.



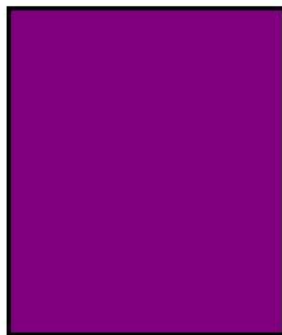
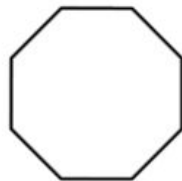
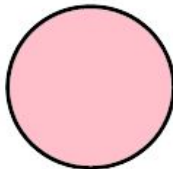
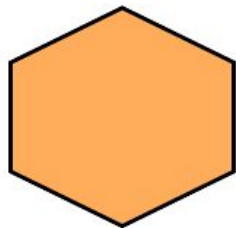
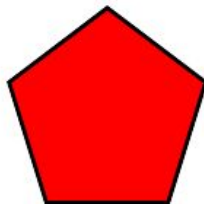
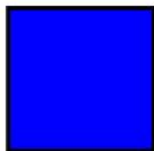
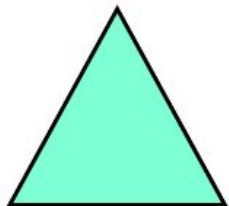
Complete a tally chart to show the number of each shape.

When you are finished, you might want to do a shape hunt around your house and do another tally chart!

Mr Johnson has started it for you!

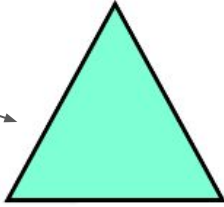


Can you name these 2D shapes?

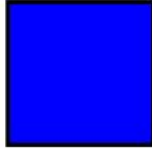


Let's see if you were right!

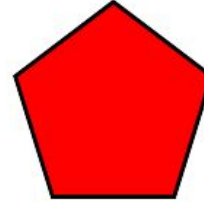
triangle



square



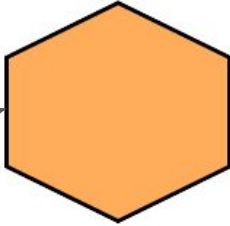
pentagon



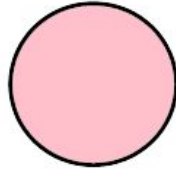
rectangle



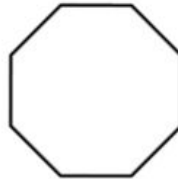
hexagon



circle



octagon

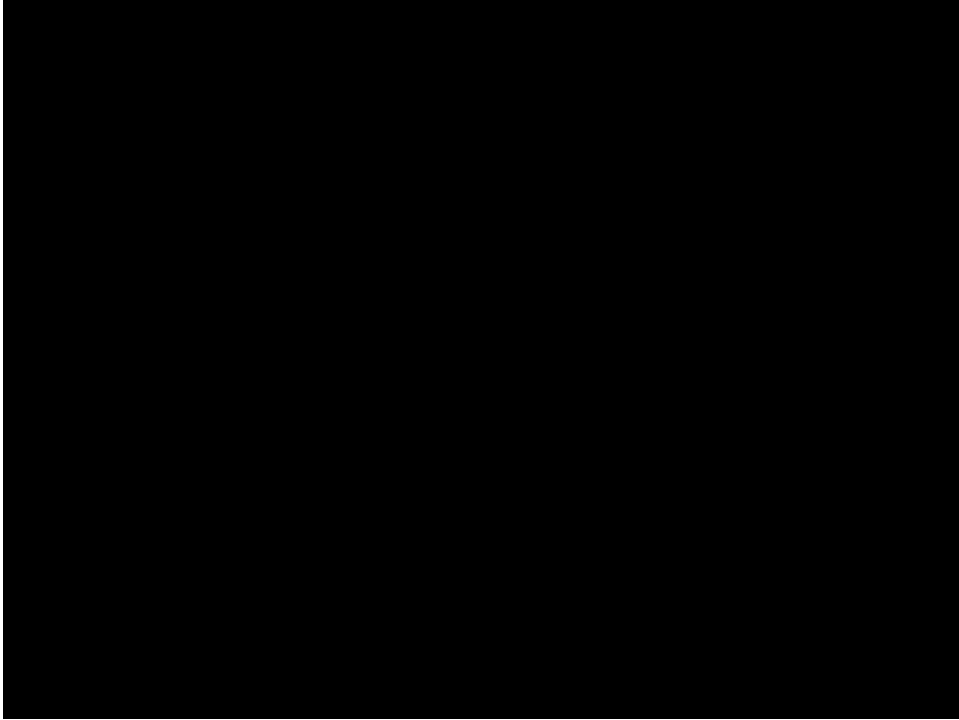


rectangle



How many sides does each shape have?

Let's listen to Mrs Holbrough talk about some of these 2D shapes!



End video at 3:19

Vocabulary

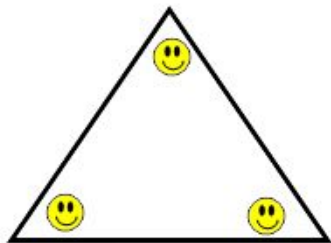
sides



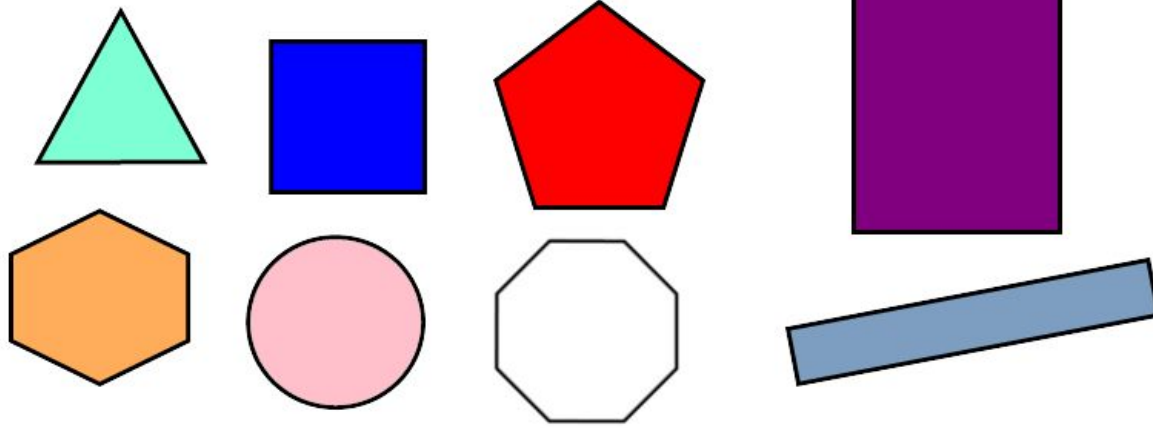
vertex



vertices



Which shape am I describing?



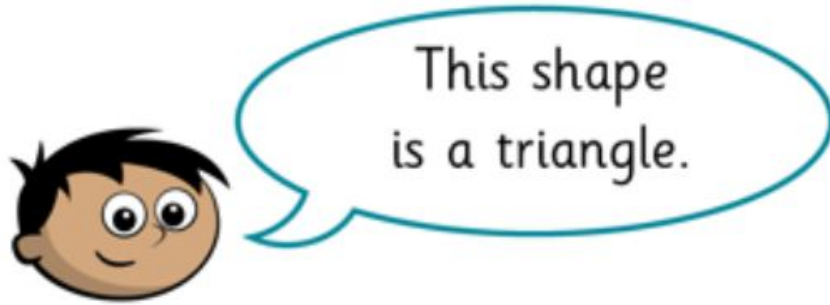
sides vertices / corners
straight curved equal

It is the _____ because it has _____



Click the video above to watch Mr Johnson describe some 2D shapes. I think his cat enjoyed playing this game too!

Can you guess what the shapes are?



Is Amir correct? _____

How do you know?

I think _____ because...

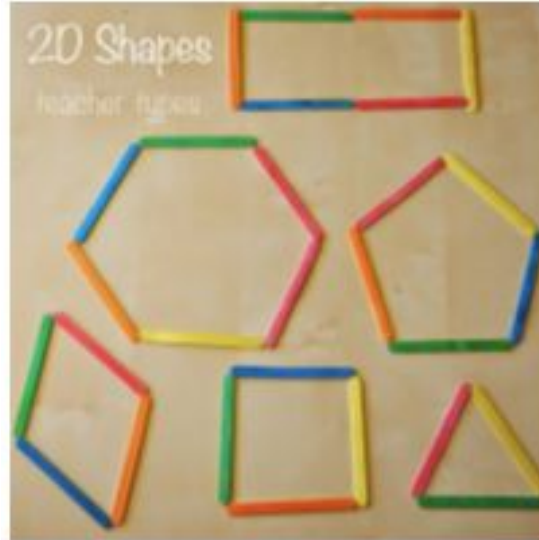
I know this is _____ because....

Activity:

Cut up some thin strips of paper (you could use lolly sticks, pencils, sticks etc for creating shapes)

Use your resource to make different shapes.

Describe the shape.





Lesson 2 - Symmetry

In this lesson we will be learning about symmetry. You might find it helpful for your child to have a small mirror to help them.

We encourage the children to look for different lines of symmetry, including horizontal and vertical.

Activity to upload:

Draw the other side to symmetrical shapes and patterns.

This sheet is attached separately and saved as 'Lesson 2'.

1) How many points do Class 2 have?

Class	Tally	Total points
Class 1		15
Class 2		<input type="text"/>

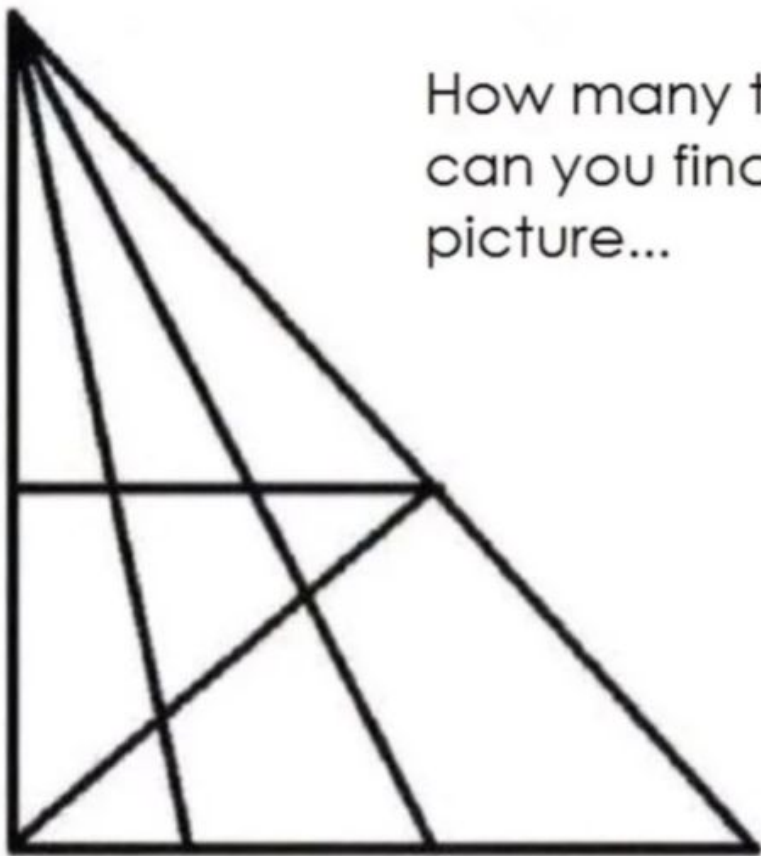


5) What's the time?

2) Divide 20 by 5

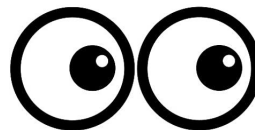
3) Calculate 2×8

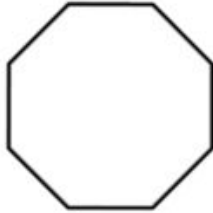
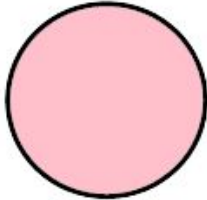
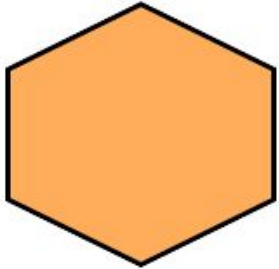
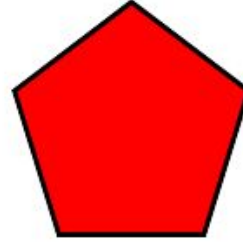
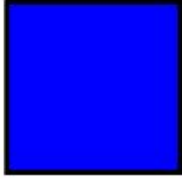
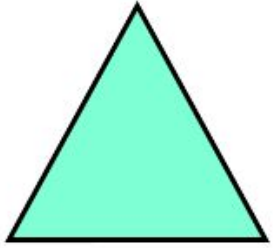
4) What is $8 + 8$?



How many triangles
can you find in this
picture...

Use your sharp eyes!

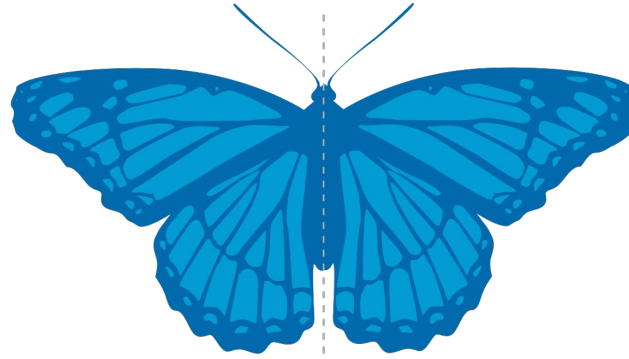




Can you name all
of these shapes?

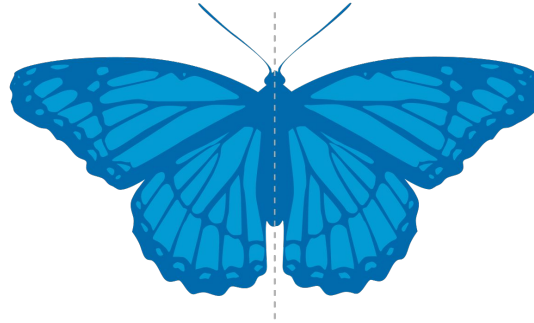
You could
describe them
too!

What do you notice about all of these pictures?



Maybe you noticed that they all have 2 sides that are the same as each other when mirrored.

We call this a **line of symmetry**.



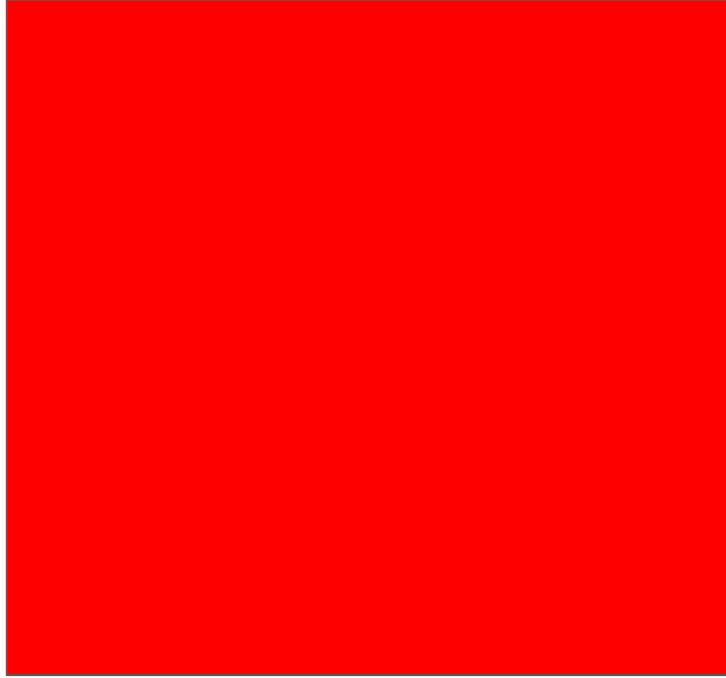
Something is **symmetrical** when it is the same on both sides. A shape has **symmetry** if a central dividing line (a mirror line) can be drawn on it, to show that both sides of the shape are exactly the same.

These videos below show some examples of symmetrical shapes.

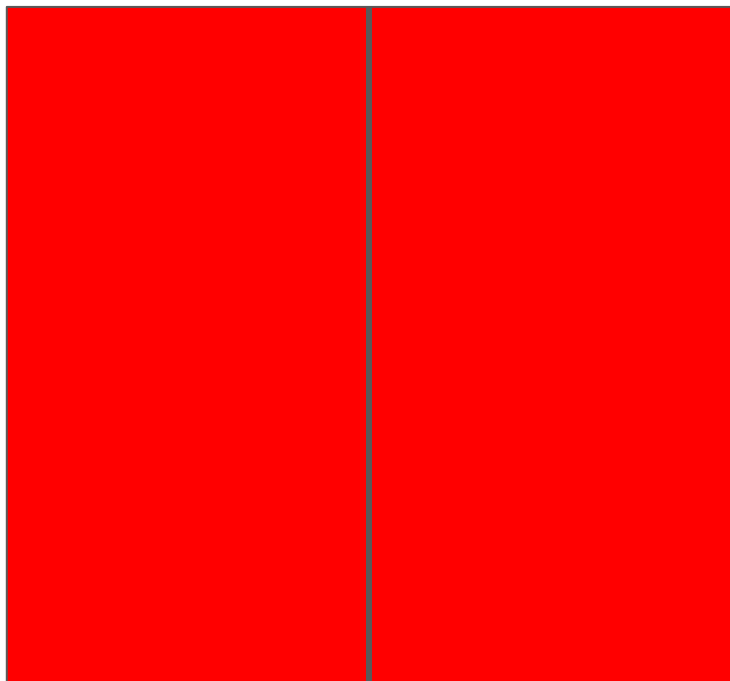
[Symmetry Song for Kids | A Day at Symmetry Land | Lines of Symmetry - YouTube](#)

<https://www.bbc.co.uk/bitesize/clips/ztpyr82>

Is this shape symmetrical?
Can you draw a line of symmetry?



You might have drawn a **vertical** line of symmetry.

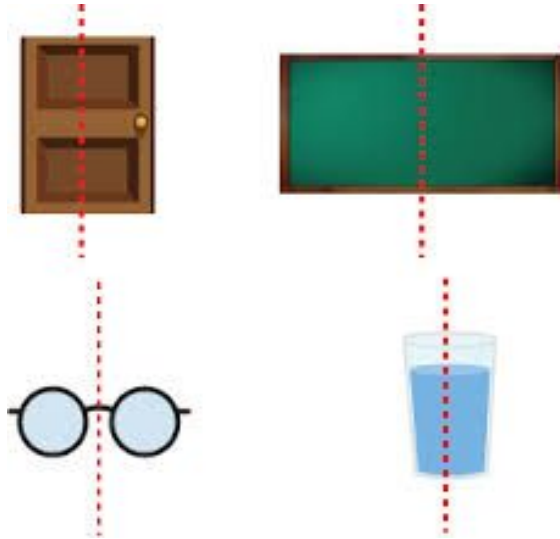


You might have also drawn a **horizontal** line of symmetry.



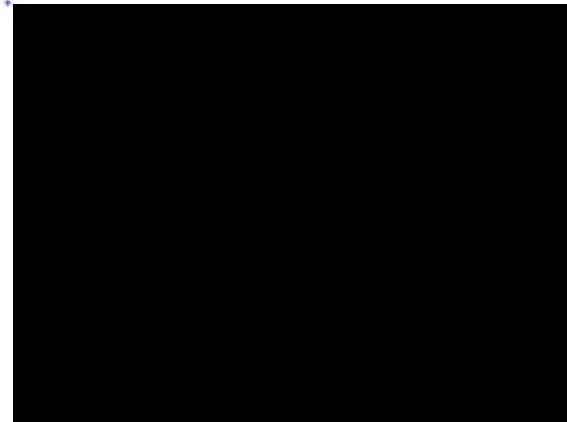
Symmetry search!

Go around your house and see how many symmetrical shapes/ objects you can find.



Which of these shapes have a line of symmetry?

You might use a mirror to help you, or you might cut out the shapes and fold them to help you.



Watch the video here to show the answers!





Can you draw the vertical line of symmetry?





Which shape goes in each part?

	vertical line of symmetry	no vertical line of symmetry
3 sides		
more than 3 sides		



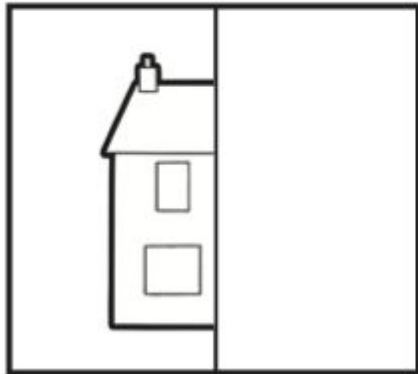
Can you think of one more shape to add to each part?

Activity to upload:

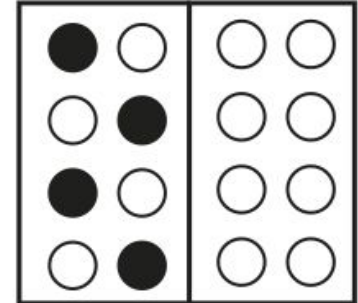
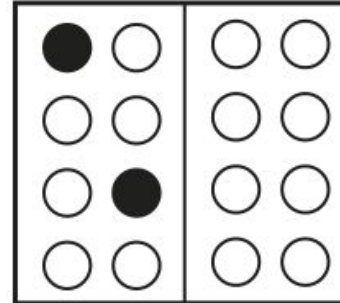
Draw the other side to these symmetrical shapes and patterns.

This sheet is attached separately and saved as 'Lesson 2'.

**Complete the pictures below by drawing the other half.
Finish the pictures by colouring them in.**

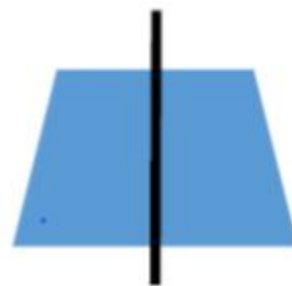


Mirror these patterns below. Place a mirror on the centre line to help you.



Challenge!

Circle the shape with an incorrect line of symmetry. Explain why.



Lesson 3

Guess my shape.

In this lesson we will look at describing a shape and trying to work out what shape has been described.

Activity to upload:

Describe 2D shapes - We will respond to your work by guessing your shape! Your child could write the clues or you could record your child saying the clues.

1) How many children walk to school?

Travel	Tally	Total children
Walk		<input type="text"/>
Car		<input type="text"/>



5) What's the time?

2) Calculate $8 \div 2$

3) What is $5 + 5$

4) What is 10 more than 30?

Vocabulary Recap!

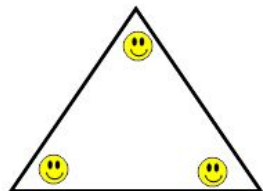
sides



vertex



vertices



Can you guess my shape?

It has 3 sides.

It has three vertices/corners.

All the sides are equal length.

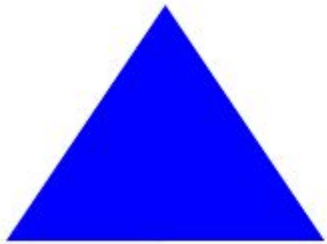
Answer on next slide!

Well done, my shape is a triangle!

It has 3 sides.

It has three vertices/corners.

All the sides are equal length.



Which one?
Why?



Can you guess my shape?

It has 4 vertices.

It has 4 sides.

2 sides are long.

2 sides are short.

Answer on next slide!

Well done, my shape is a rectangle!

It has 4 vertices.

It has 4 sides.

2 sides are long.

2 sides are short.



Which one?
Why?



Can you guess my shape?

It has 5 vertices.

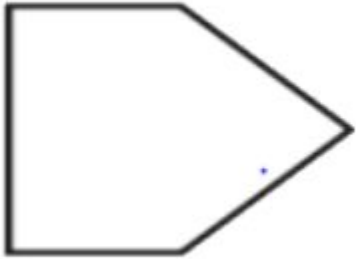
It has 5 sides.

Answer on next slide!

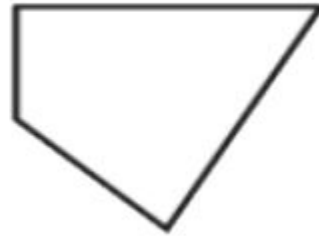
Well done, my shape is a pentagon!

It has 5 vertices.

It has 5 sides.

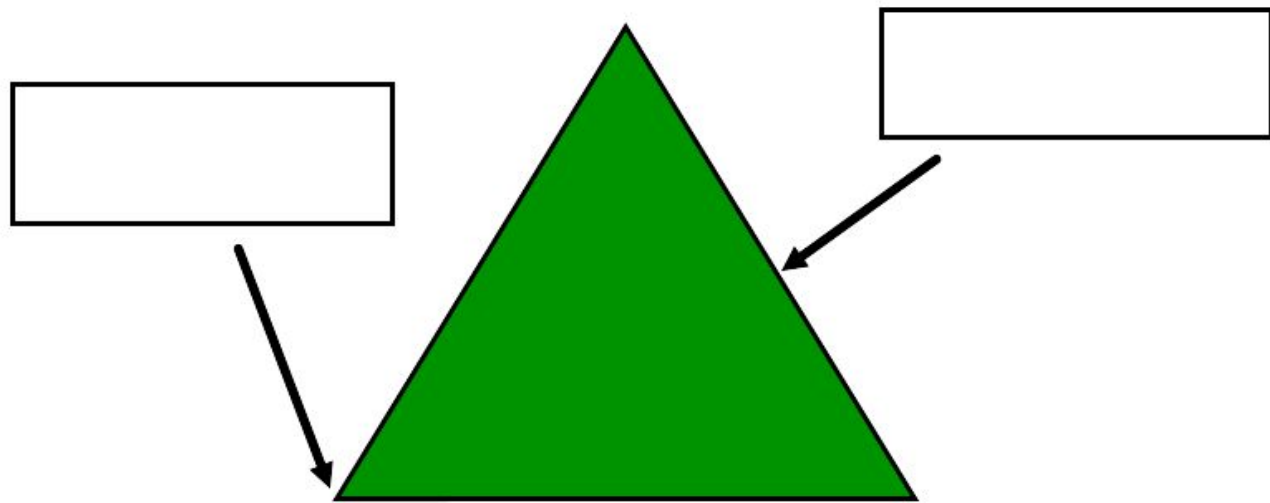


Which one?
Why?



Can you put these shapes in order based on the number of **sides**?



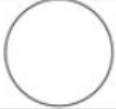




It is a

The has sides.

The has vertices.

Activity 1: Can you complete this shapes table?

shape name	shape	number of sides	number of vertices
			
			
	triangle		
	rectangle		
		5	
			6
			

Activity 2:

Activity to upload. Can you describe a shape so that we can guess the shape you have described?

My shape has _____

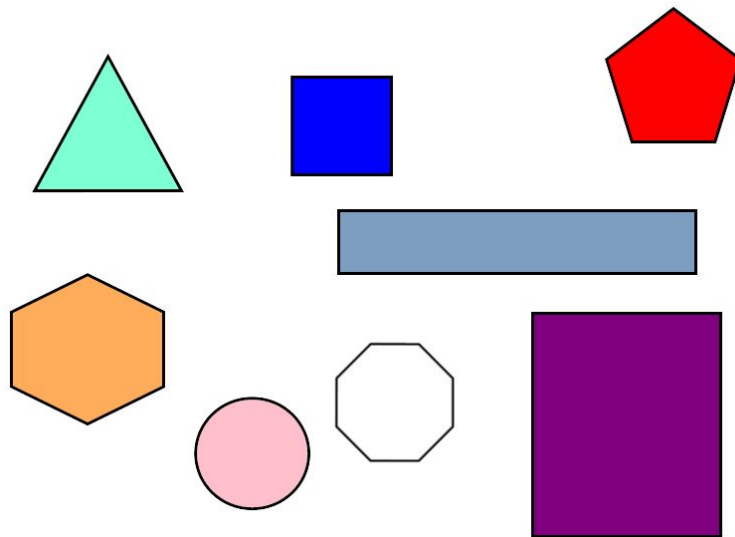
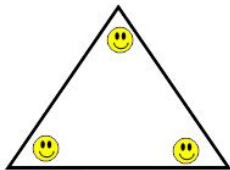
sides



vertex

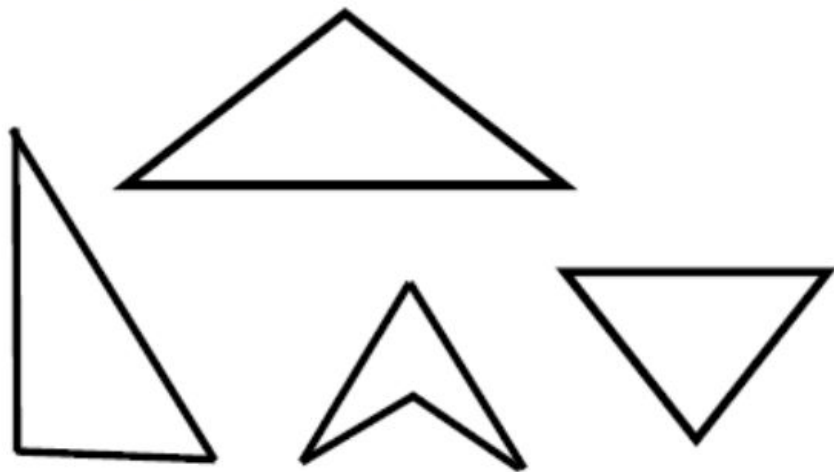


vertices



Challenge!

Which is the odd one out? Explain your reasoning.





Lesson 4


In this lesson the children will be comparing different 2D shapes. We encourage them to use the different vocabulary, including: sides, vertices/vertex, straight, curved and symmetrical.

Activity: Choose 2 or 3 shapes and compare them.

- 1) How many rainy days altogether?

Weather		Total days
Sunny		4
Rainy		<input type="text"/>

Key

 = 1 day



5) What's the time?

- 2) Work out $30 \div 5$

- 3) How many sides do 10 squares have?

- 4) What is $30 + 40$?

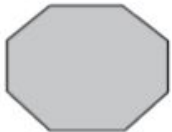
Shape warm up! Can you match the shape to the name by drawing a line across. Explain your thinking.



pentagon



triangle



octagon

hexagon

Tick the **two** sentences that are correct.

Tick **two**.

A square has sides of equal length.

☐

A square has curved sides.

☐

A square has lines of symmetry.

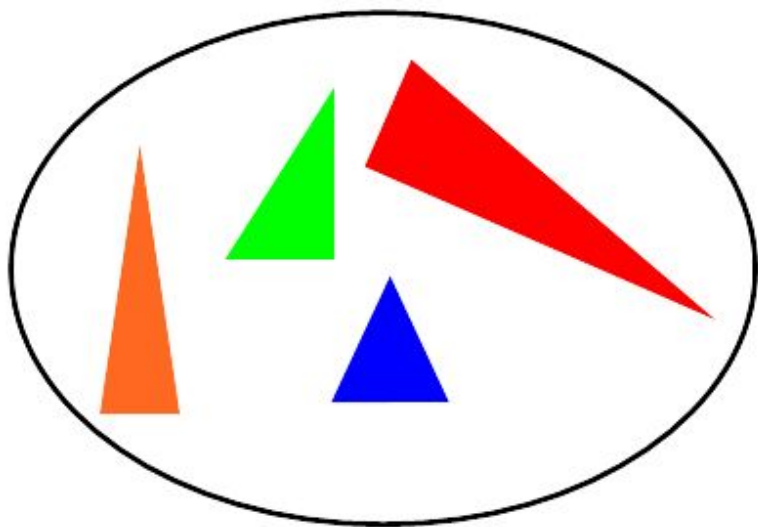
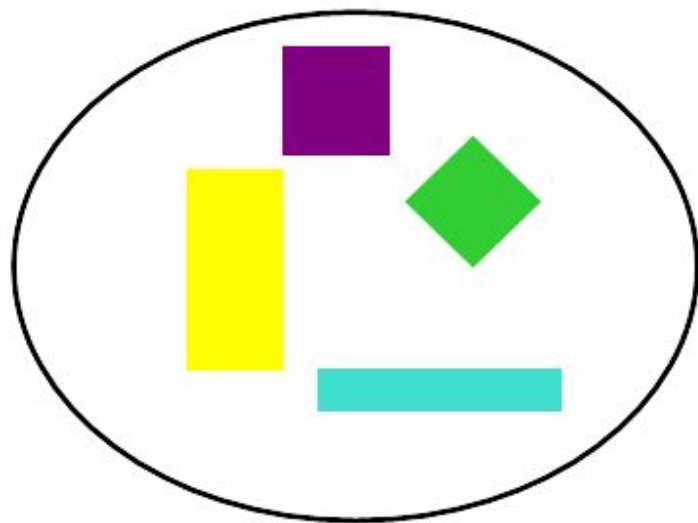
☐

A square has five sides.

☐



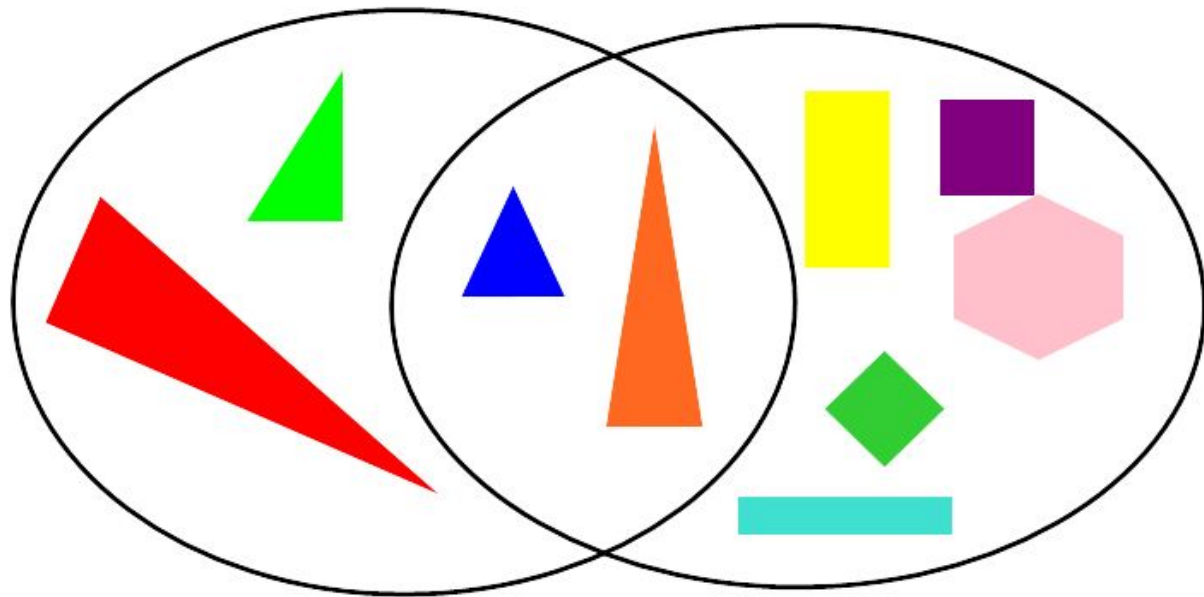
Beth knows the shapes are different, but she has noticed how some are similar.
Can you explain what Beth has done?





The circles now overlap. This means the shapes can belong in each set.

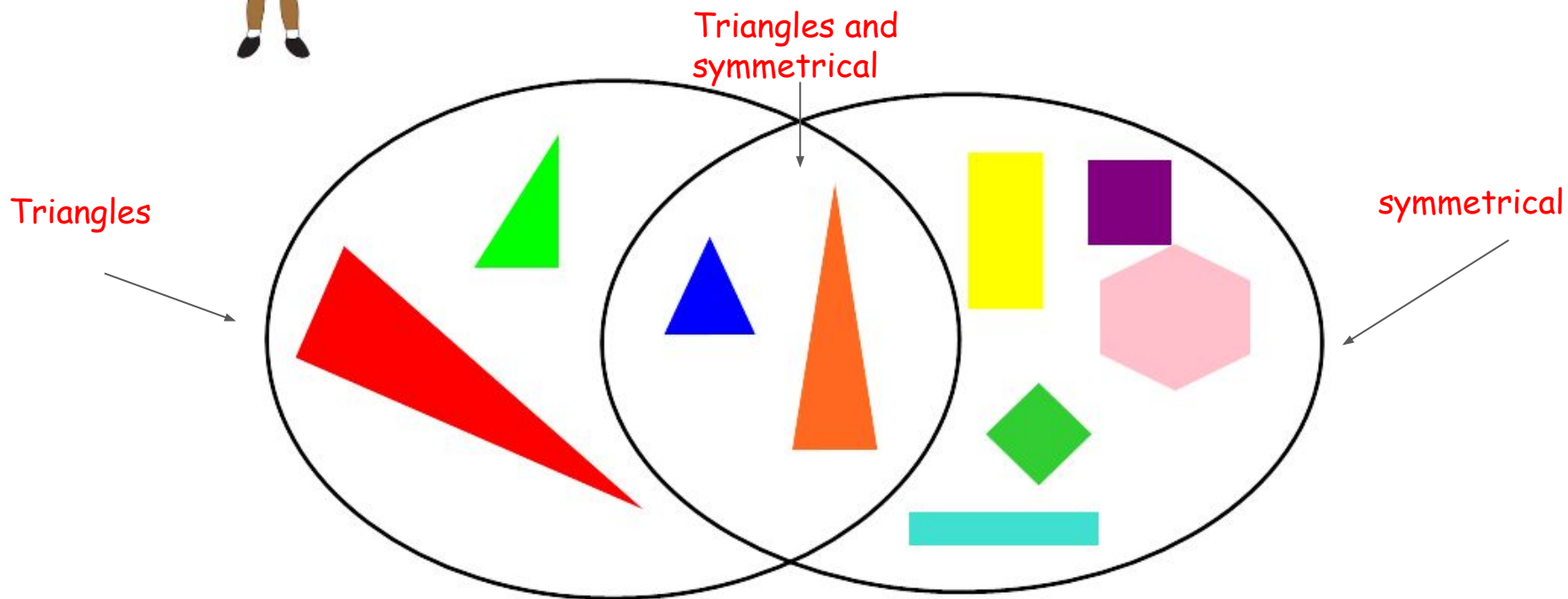
Can you work out how the sets have been labelled?

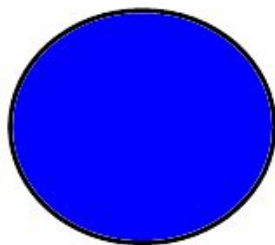
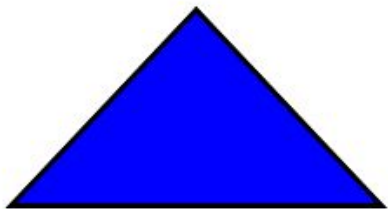




The circles now overlap. This means the shapes can belong in each set.

Can you work out how the sets have been labelled?





**TIME TO
TALK!**

Can you help Beth
compare the shapes?

same different

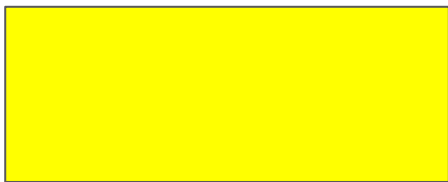
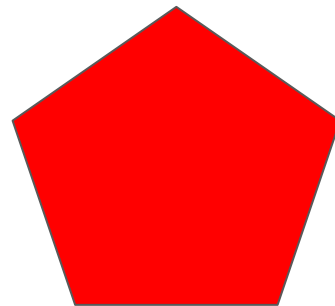
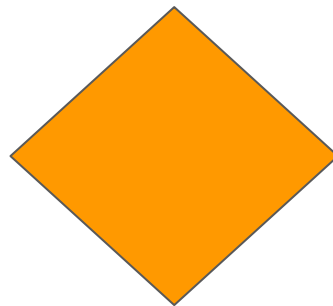
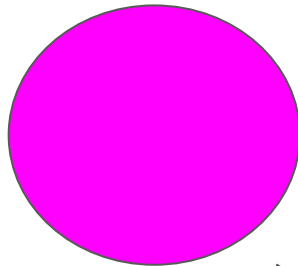
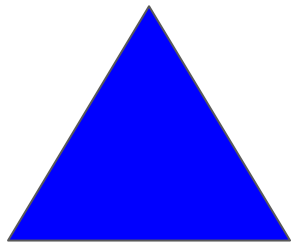
vertices sides

straight curved

symmetrical

Activity: Choose 2 shapes and compare them.

Challenge: Choose 3 shapes and compare them.



For example: The triangle is the same as the square because all the sides are equal.

It is different because it only has 3 vertices and the square has 4.

Lesson 5 - Mental Maths - Counting in steps of 2, 5 & 3

Focus:

To count in steps of 2, 5 and 3 forwards and backwards.

Teaching Point:

Counting in 2s, 5s and 3s is a precursor to learning times tables.

The games shared can be used to support the practice of counting in steps of 2, 5 and 3.



- 1) How many children go to Netball club?

Club	
Netball	● ● ● ● ● ●
Art	● ● ●

Key

● = 1 child



5) What's the time?

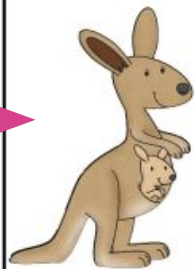
- 2) What is $12 \div 2$?

- 3) How much money is there altogether?



- 4) Is 17 even or odd?

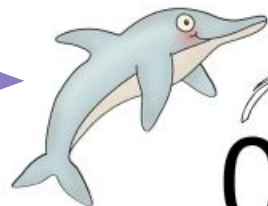
March it!



Skip Counting by 2s



Jump it!



Skip Counting by 5s



Clap it!



Skip Counting by 3s





Skip Counting by 2s

Find your way from 2 to 50 counting by 2s in order to complete the maze!

START ➡	2	4	6	6	7	2	1	3	4
4	2	3	8	9	8	3	2	50	END! 
1	14	12	10	10	9	6	7	48	9
5	16	1	12	11	3	10	11	46	8
13	18	20	22	12	18	19	42	44	20
11	16	15	24	23	24	38	40	1	21
15	17	11	26	28	10	36	3	30	2
3	18	19	20	30	32	34	28	29	1





Skip Counting by 5s

Find your way from 5 to 100 counting by 5s in order to complete the maze!

START ➡	5	4	6	6	7	2	1	3	4
4	10	3	8	9	8	3	2	50	100
20	15	12	10	10	9	6	7	48	9
25	16	1	12	65	70	75	11	46	8
30	35	40	22	60	18	80	42	44	20
11	16	45	50	55	24	85	90	1	21
15	17	11	26	28	10	36	95	100	END! 
3	18	19	20	30	32	34	28	29	1





Skip Counting by 3s

Find your way from 3 to 60 counting by 3s in order to complete the maze!

START ➡	3	7	5	6	7	2	1	3	4
4	6	3	4	9	8	3	2	2	1
1	9	12	15	10	9	6	7	5	9
5	6	1	18	11	3	10	11	9	8
13	10	24	21	12	45	48	51	3	20
11	16	27	11	2	42	25	54	1	21
15	17	30	33	36	39	26	57	60	END! 
3	18	19	20	10	16	27	28	29	1



Home Learning Activities:

These are great games, that challenge you to begin at a starting point other than 0.

Select: sequencing → counting in steps → steps up to five → then select 0-100 or 100-0



Chinese Dragon

<https://www.topmarks.co.uk/ordering-and-sequencing/chinese-dragon-ordering>



Caterpillar

<https://www.topmarks.co.uk/ordering-and-sequencing/caterpillar-ordering>



These are some 'hands-on' ideas to support your child's understanding and practise of skip counting

