

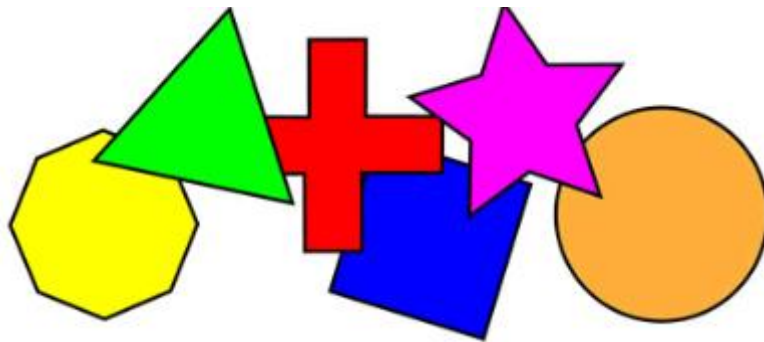
Day 1 - Monday

Watch: <https://www.youtube.com/watch?v=WTeqUeif3D0>

What Shape for Two

Age 6 to 14

Here's a game to play with an adult!



How do you play?

You will need an adult to play with.

You'll also need the set of [shape cards](#).

Spread them out on the table so that you can both see the shapes.

The adult looks at the cards and secretly chooses one.

Your job is to ask questions to find out which card has been chosen.

When you think you have worked out which shape the adult has chosen, point to it.

If you're right, you could swap roles.

If you're wrong, keep going!

Notes for adults

This game is all about the language of shape and position.

Easier version: restrict the number of cards used. You might want to talk in advance about the sort of questions it would be helpful to ask.

Harder version: use the full range of cards.

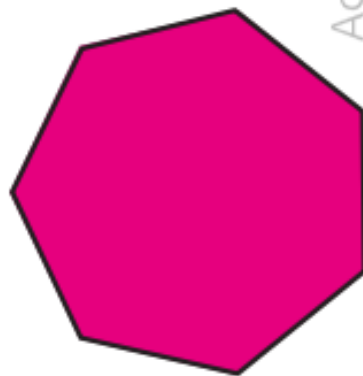
At the end of the game talk about what proved to be good questions and less good questions. You could keep a note of how many questions were needed and see if you could reduce the number in subsequent games.

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rectangle



heptagon



ACTA
Go Up

triangle



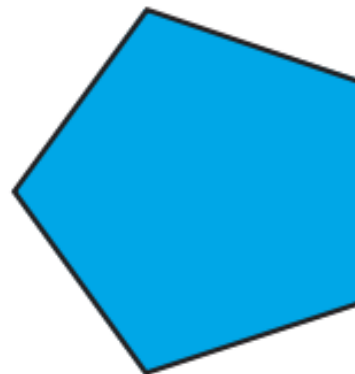
hexagon



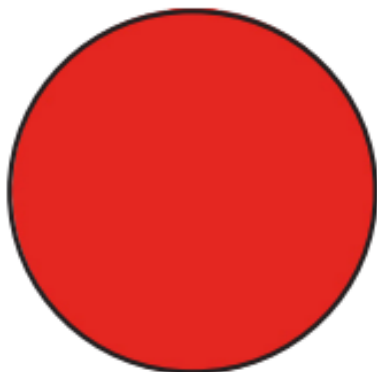
square



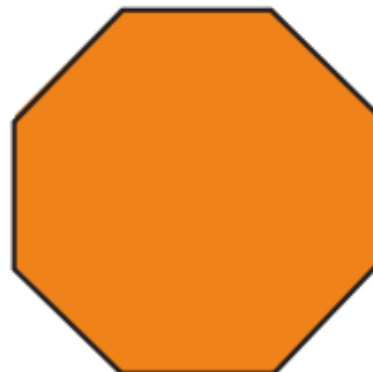
pentagon



circle



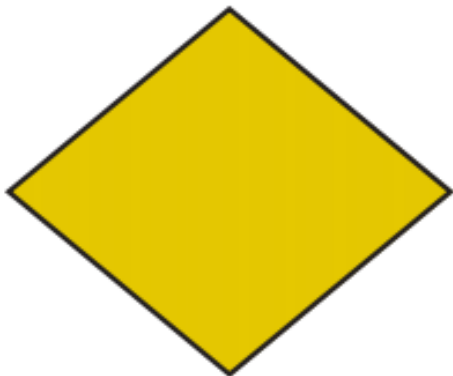
octagon



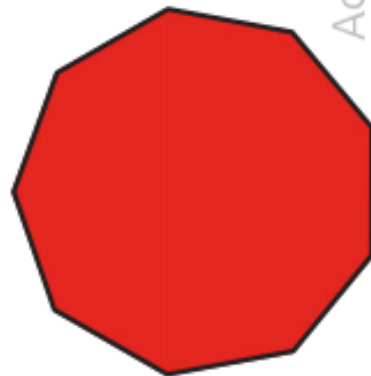
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ACTIVITY
Go to

rhombus



nonagon



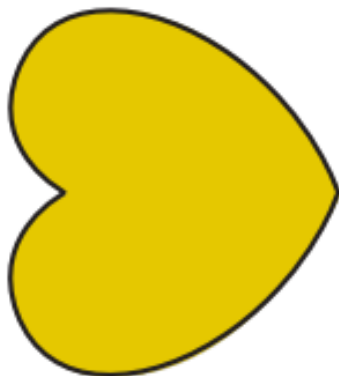
semicircle



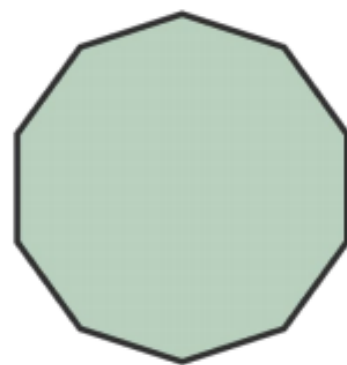
crescent



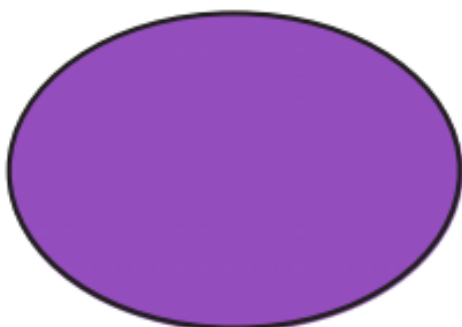
heart



decagon



oval



star



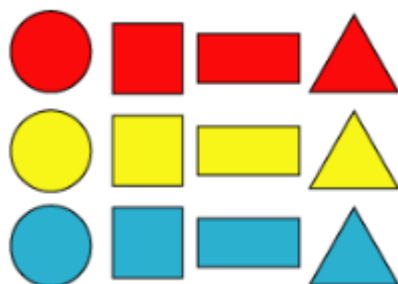
Day 2 - Tuesday

Watch: <https://www.youtube.com/watch?v=OEBRDtCAFdU>

Chain of Changes

Age 5 to 7

Here is a set of shapes. For this problem we will call them *pieces*.



Each of these pieces is either a different colour or a different shape from all the others.

These problems ask you to arrange the pieces in a line so that you change either colour or shape in the next piece along. If we start with a blue triangle the next shape has to be either another triangle or another blue shape. You may want to print and cut out a set of shapes from [this sheet](#).

The first puzzle is to arrange all the shapes in such a line starting with the blue triangle and ending with the red circle. There are lots of different ways of doing it!



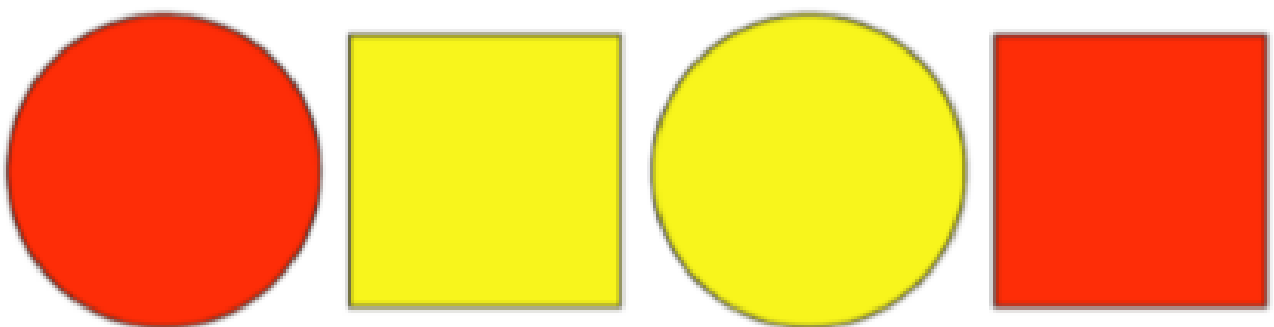
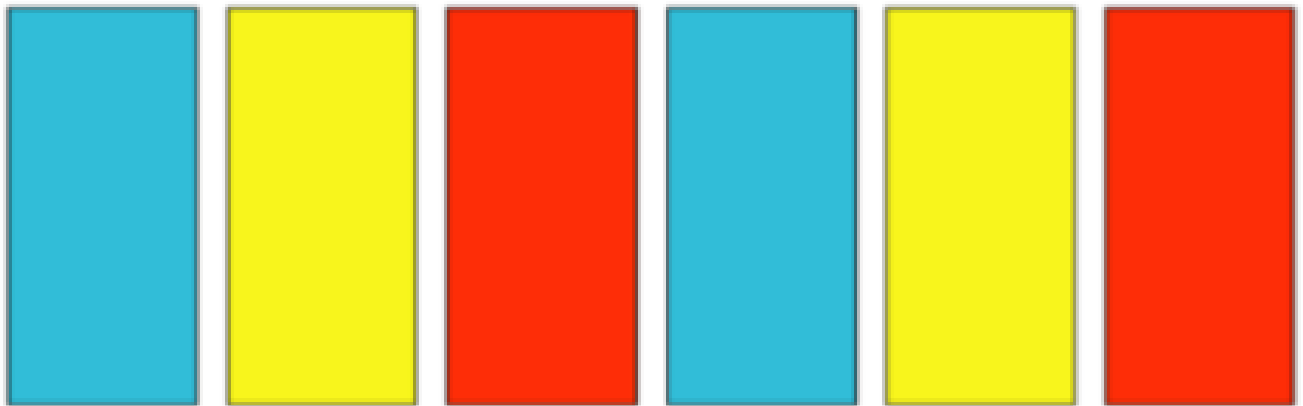
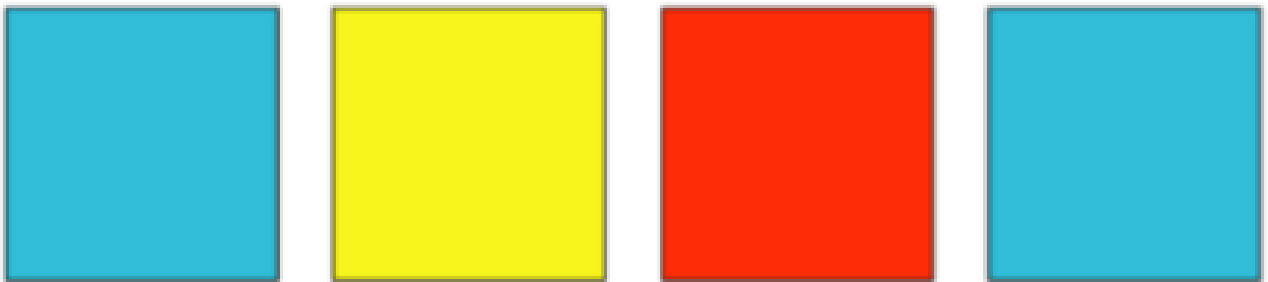
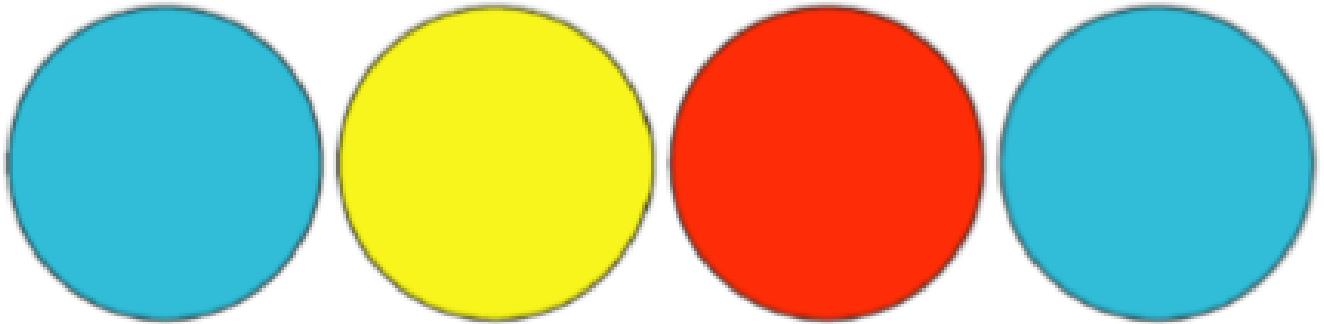
The second problem is to arrange the pieces in the same way, starting with the blue triangle and ending with the red circle, but to change first colour, then shape or vice-versa.

If you put a yellow triangle after the blue one and so change the colour, next you must put another yellow piece and so change the shape.

You will not be able to use all the pieces in this way but the problem is to see how many you can use.

Why do you think you cannot use all the pieces?

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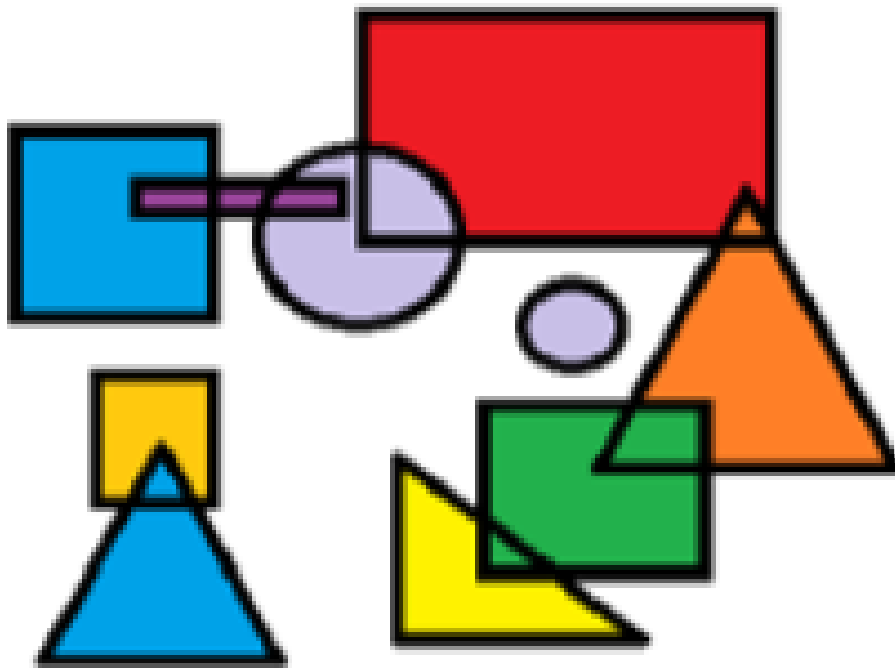
Day 3 - Wednesday

Watch: <https://www.youtube.com/watch?v=AnoNb2OMQ6s>

Can you name all the shapes you can see?

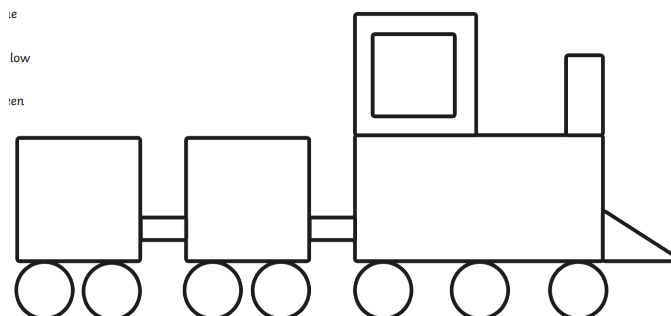
How many of each shape are there?

How are the shapes different, how are they the same?






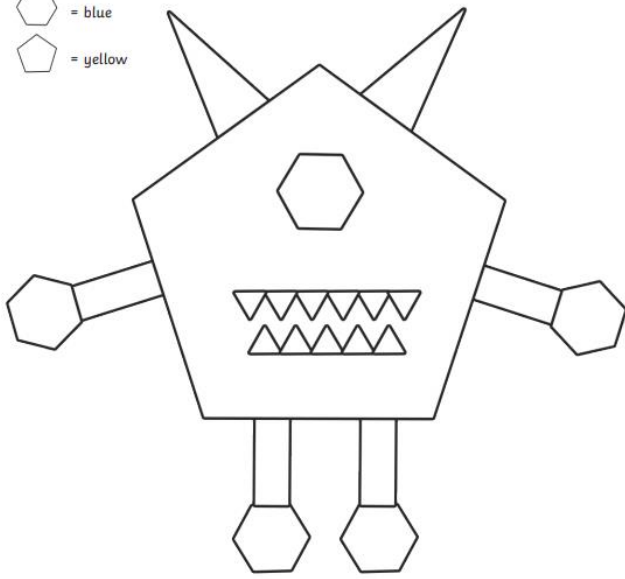
Can you make your own shape picture and describe them to someone? Here are some examples...




Can you colour the shapes to complete the picture?

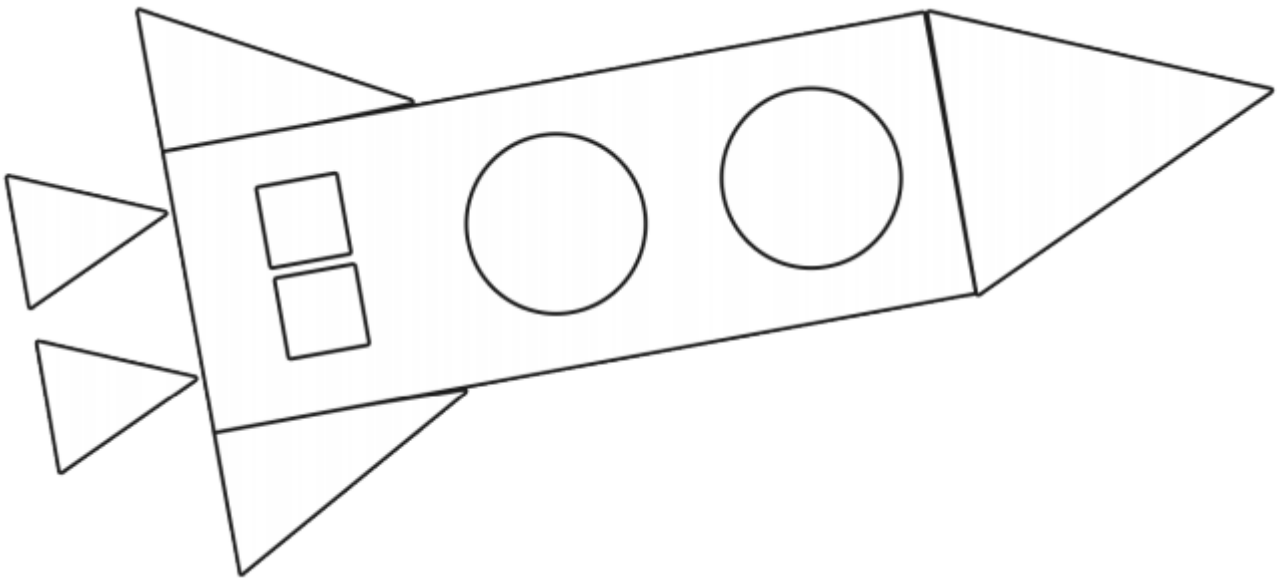
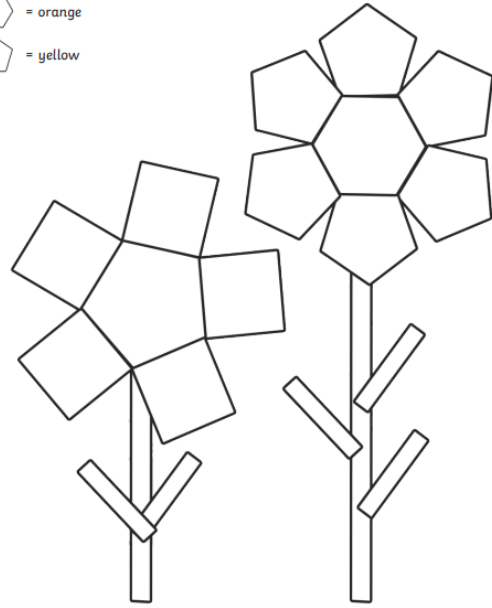


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-  = red
-  = blue
-  = yellow



-  = purple
-  = orange
-  = yellow

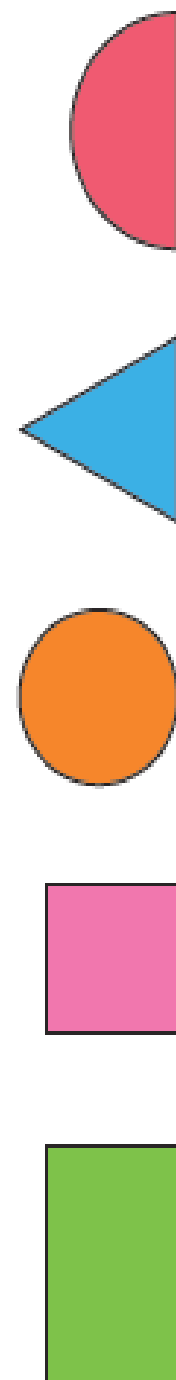
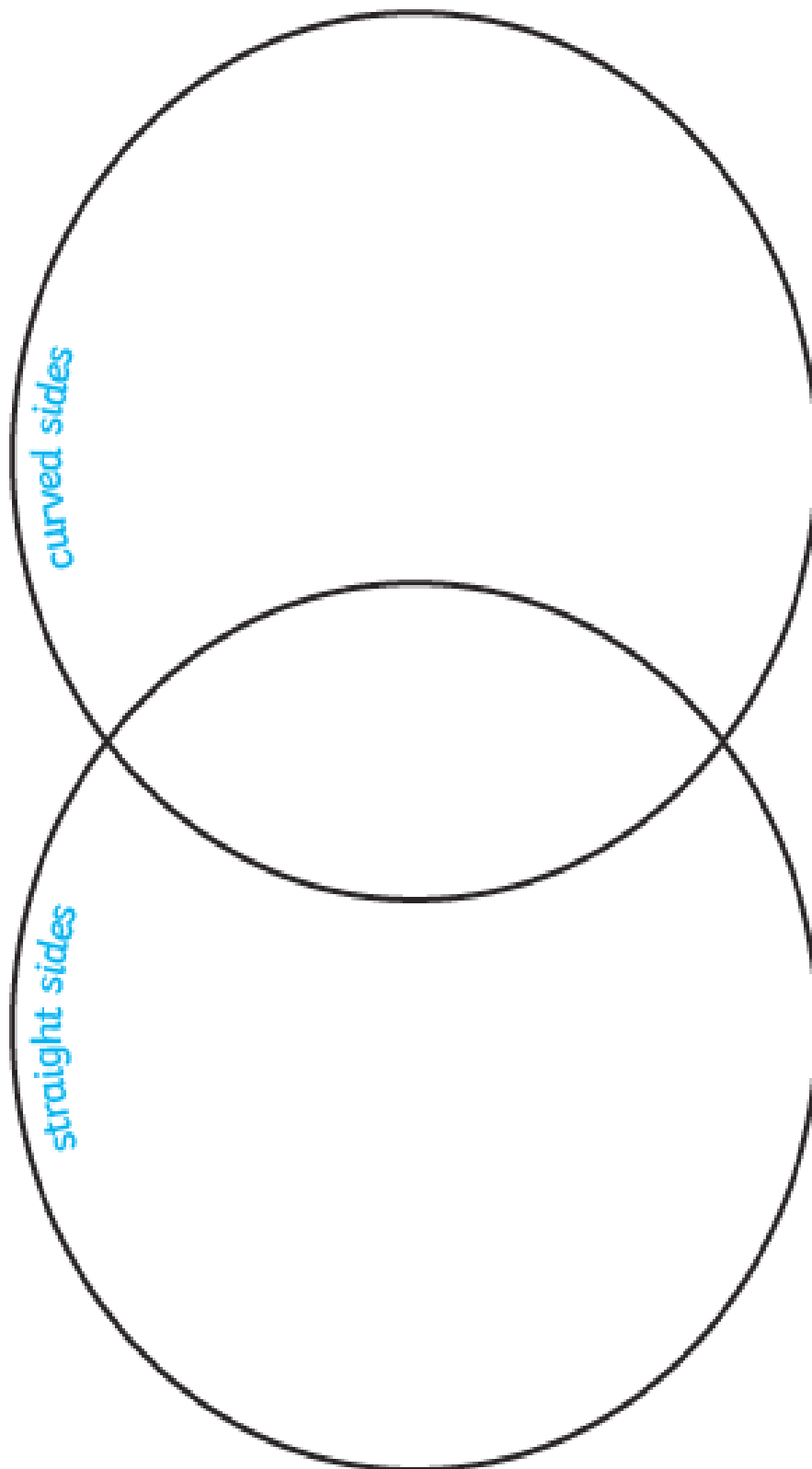


Day 4 - Thursday

Watch: <https://www.youtube.com/watch?v=pfRuLS-Vnjs> <https://www.youtube.com/watch?v=cGWBTDAC14>

Straight and Curved Sides

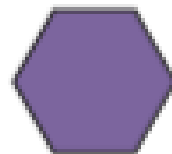
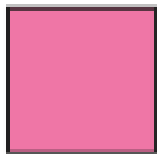
Draw the shapes in the correct spaces in the hoops.



2D Shapes: Properties

Cut out the shapes and match them to the correct description.

	6 straight sides 6 vertices This 2D shape is a _____
	3 straight sides 3 vertices This 2D shape is a _____
	No straight sides No vertices This 2D shape is a _____
	4 straight sides 4 vertices This 2D shape is a _____
	4 straight sides all the same length 4 vertices This 2D shape is a _____



Remember: vertices are corners!

Day 5 - Friday

Watch: <https://www.youtube.com/watch?v=24Uv8Cl5hvl>

2D Shape Properties Table

Look carefully at the properties of these 2D shapes. Write your results in the table.

2D Shape	Total Number of Sides	Number of Straight Sides	Number of Curved Sides	Number of Vertices
