2D Shapes

- To recognise 2D shapes

-To describe properties of 2D shapes

-To correctly use a Venn Diagram to sort 2D shapes

Warm up: How many 2D shapes do you know?

Square

Rectangle

Triangle

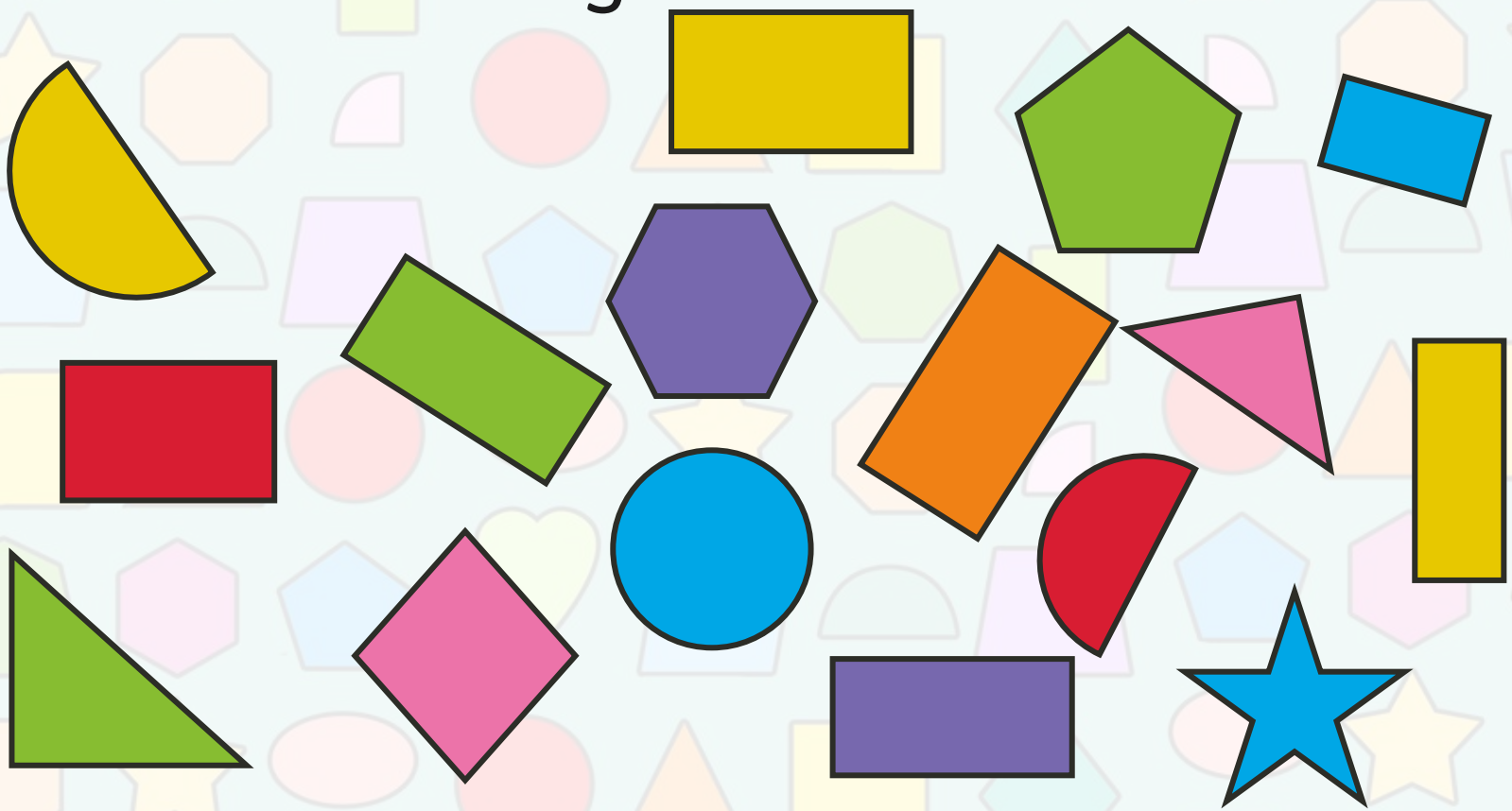
Circle

Hexagon

Pentagon

Octagon

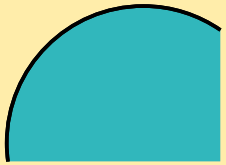
Warm Up: How many rectangles can you see?



answer 7

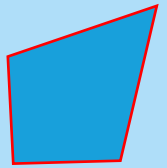
Properties of 2D Shapes

Take a look at some of the language used to describe the properties of 2-dimensional (2D) shapes below. Lets think of some **actions** for the words!



curved

longer

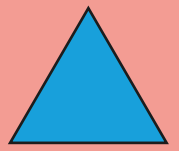


sides

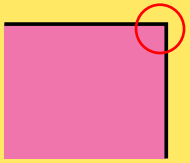
straight

shorter

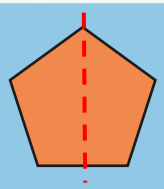
2-dimensional



equal

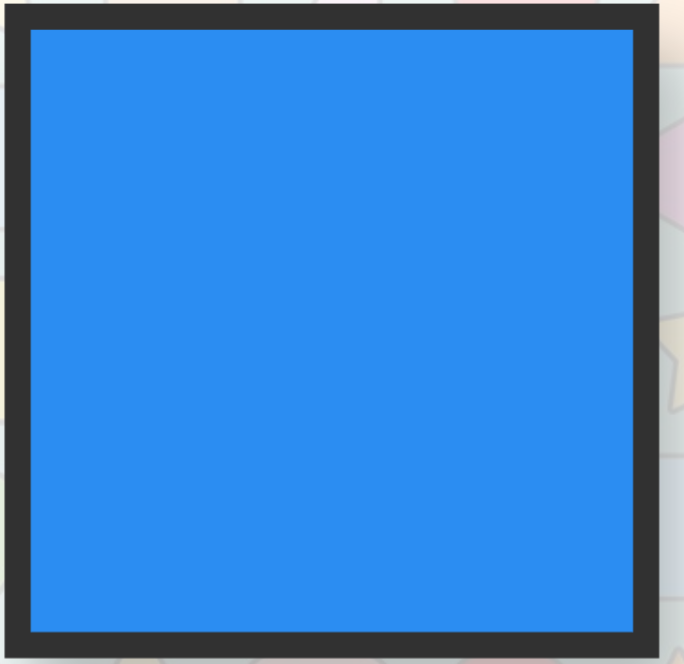


vertex/vertices



symmetry

length



4 straight sides

4 vertices

All the sides are the same length

4 lines of symmetry

5 straight sides

5 vertices

5 lines of symmetry

4 straight sides

4 vertices

They have 2 long sides
and 2 short sides

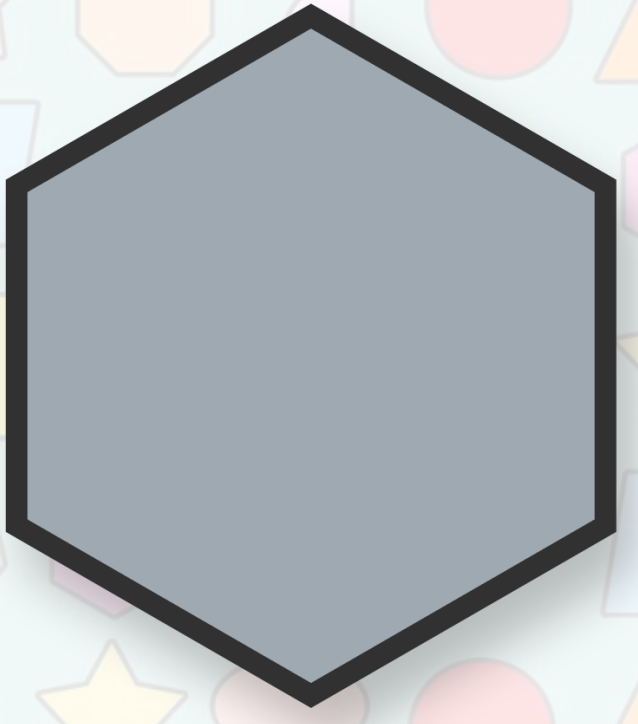
3 straight sides

3 vertices

one curved side

no vertices

infinite lines of symmetry



6 straight sides

6 vertices

6 lines of symmetry

8 straight sides

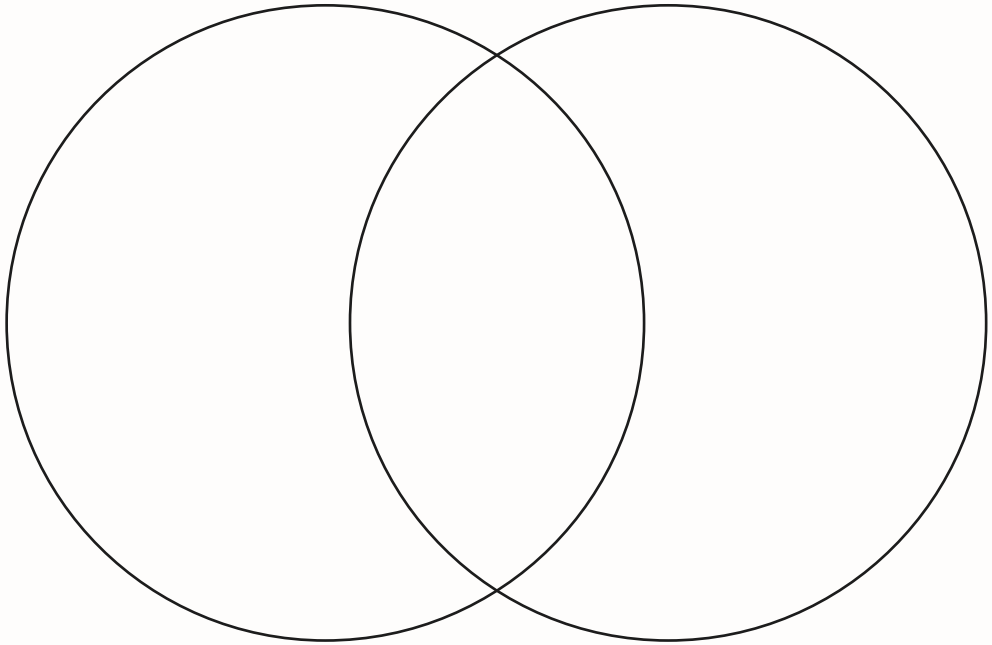
8 vertices

8 lines of symmetry

A good and useful way to sort out our 2D shapes is using a Venn Diagram

What is a Venn Diagram?

A Venn diagram is made up of two circles that overlap.

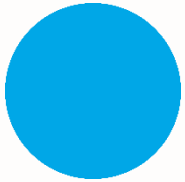


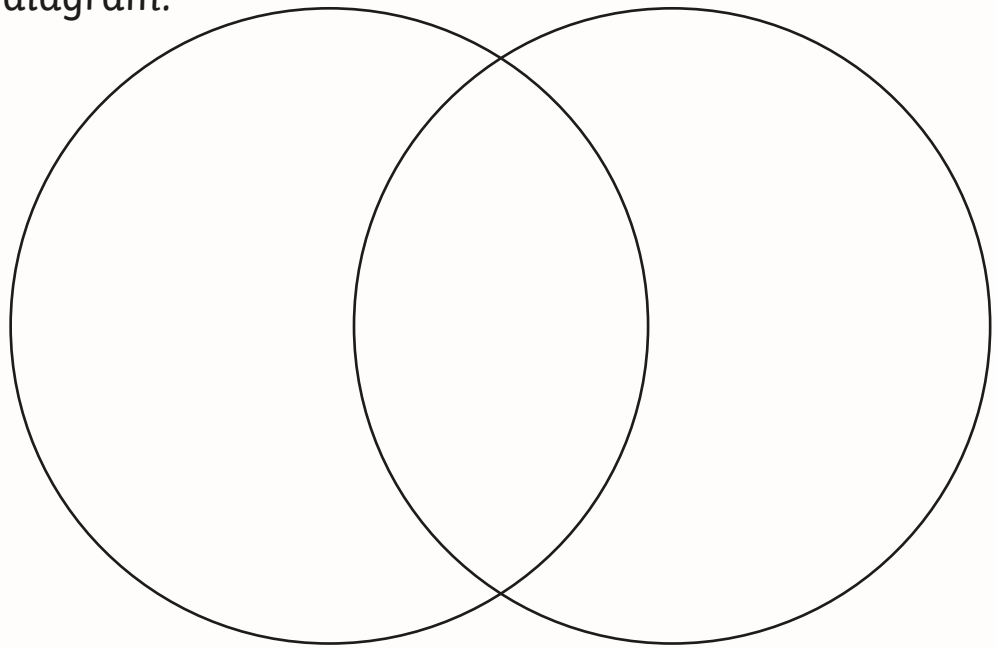
It can be used to sort objects, numbers or shapes.

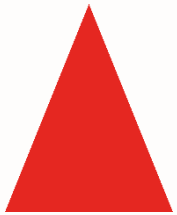
Sorting 2D Shapes

The blue rectangle fits in both parts of the diagram so needs to go in the middle of the diagram.

The blue circle needs to be in the part for blue shapes.





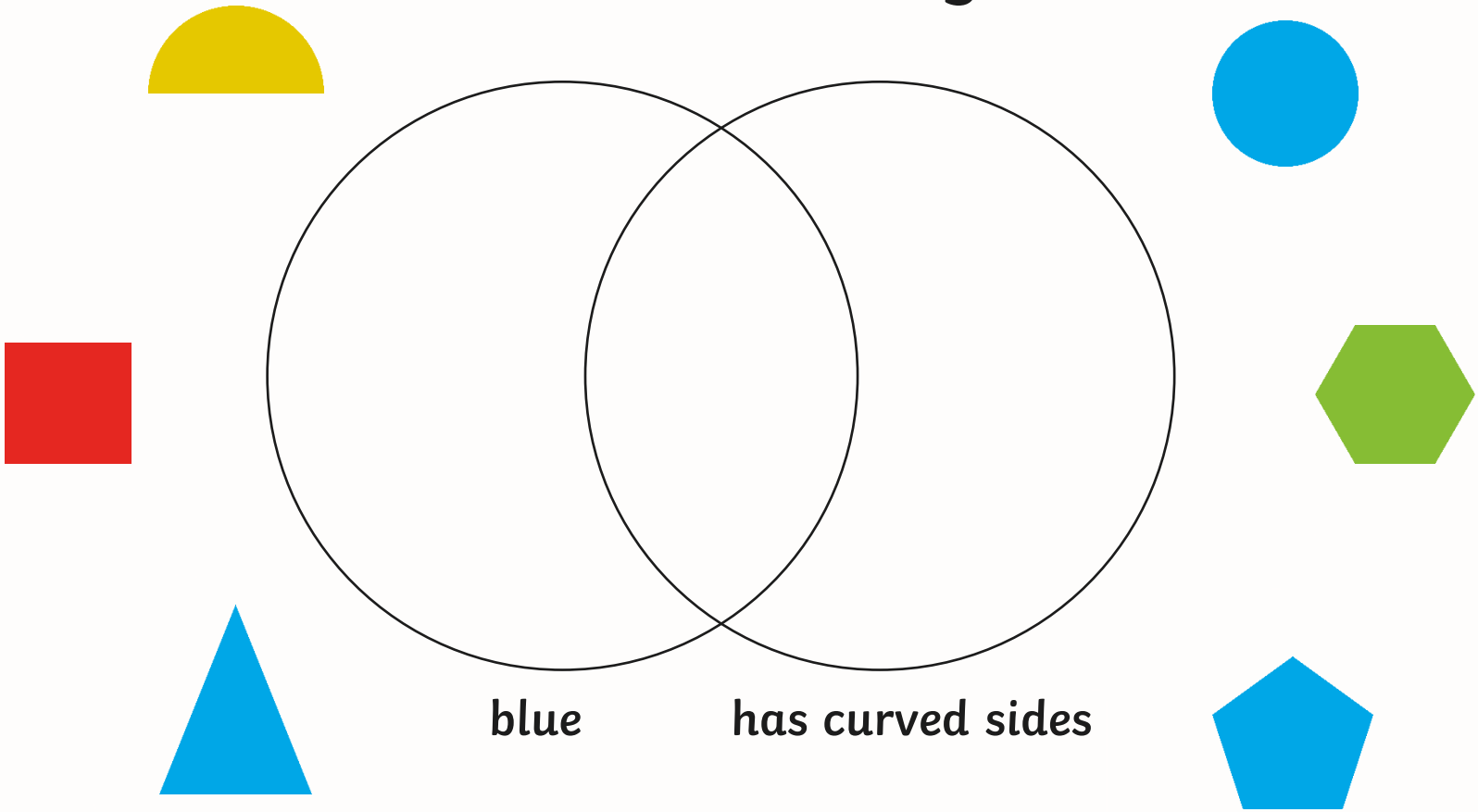


blue **has four sides**

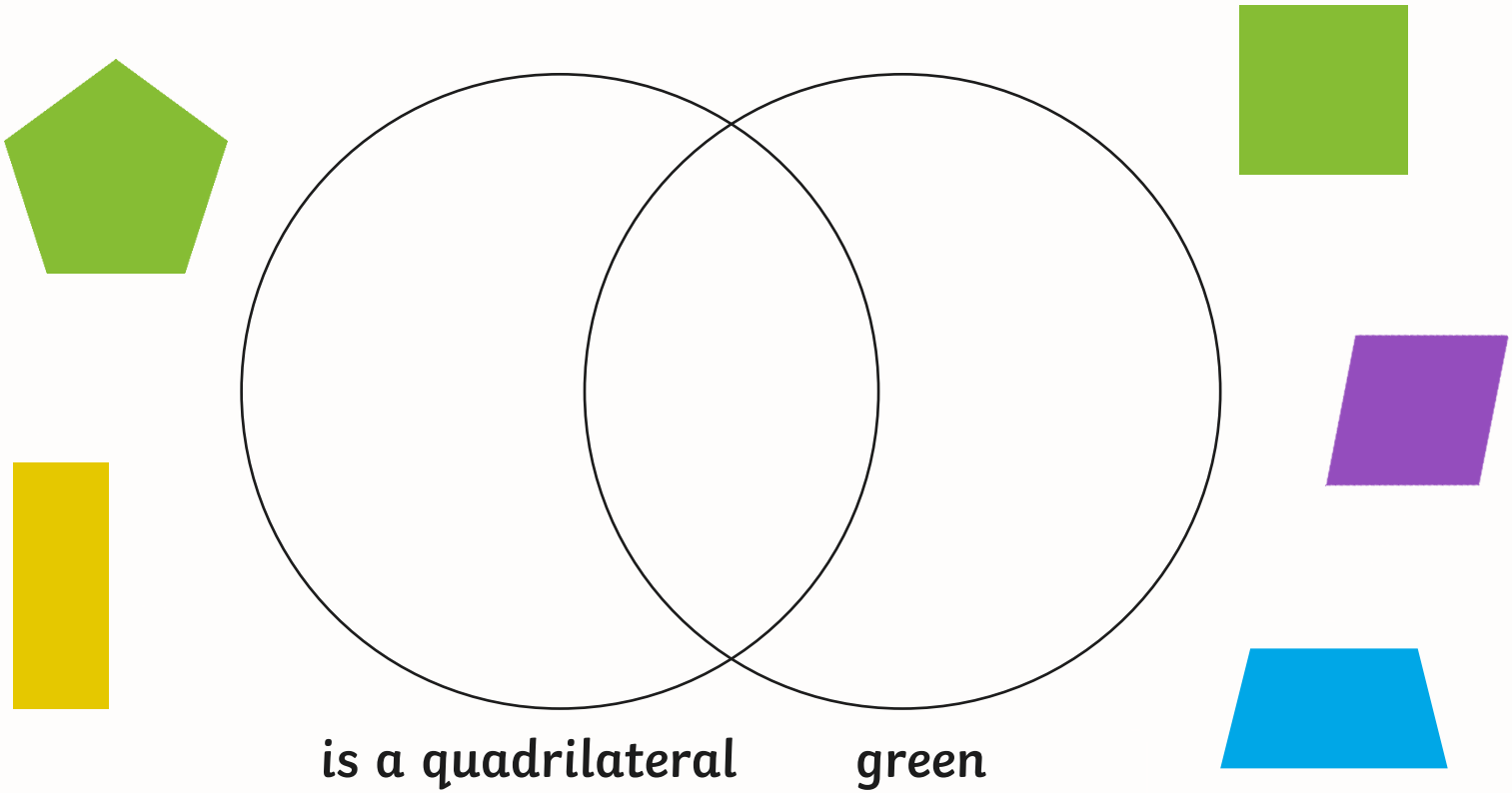
The red triangle is <u>not blue</u> and <u>does not have four sides</u> so it needs to stay out of both parts of the diagram.

The red square needs to be in the part for four-sided shapes.

Where do these shapes need to move to?
Lets do this one together



Where do these shapes need to move to? Have a go at this one



Worksheet

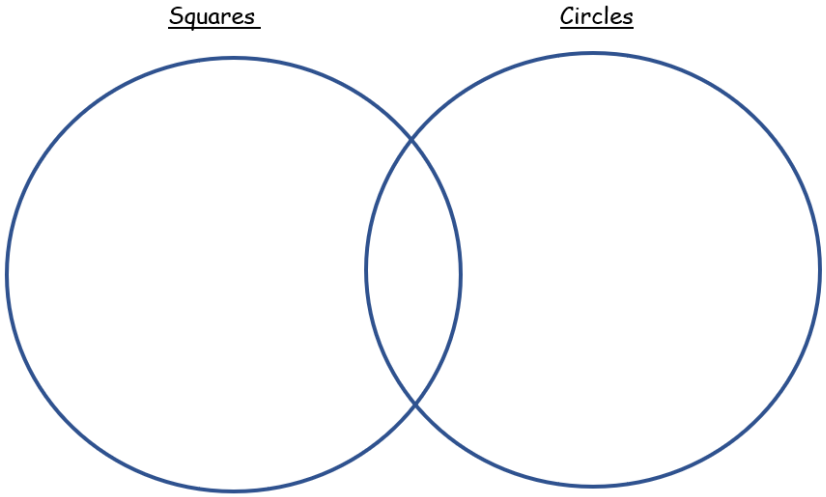
23.2.21

2D Shapes –

Look carefully at their **properties**. Write your results in the table.

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

Cut/write out the statements and place them correctly on the Venn Diagram.



is 2D	no vertices	is a shape
one curved side	is flat	has 4 vertices
has 4 straight sides	has the same number of sides as a rectangle	can be found all around us