

Maths- Shape











Week 6

Session 1

This week we have a large table to fill in.

Each day we will be able to add a little bit more information to it.

2D Shape Properties

Shape	Area	Number of sides	Number of corners	Regular/Irregular	Lines of symmetry
					
					
					
					
					
					
					
					
					
					

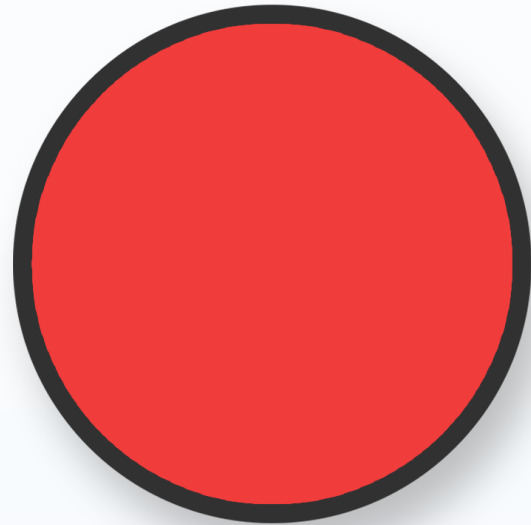
Today we are going to identify 2D shapes.

Do you know any?

Watch the video to see if you can remember any others?

<https://www.bbc.co.uk/bitesize/topics/zjv39j6/articles/ztpwdmn>

Circle



Circles only have one side.

Circles have no corners.

Square



Squares have 4 straight sides and 4 corners.

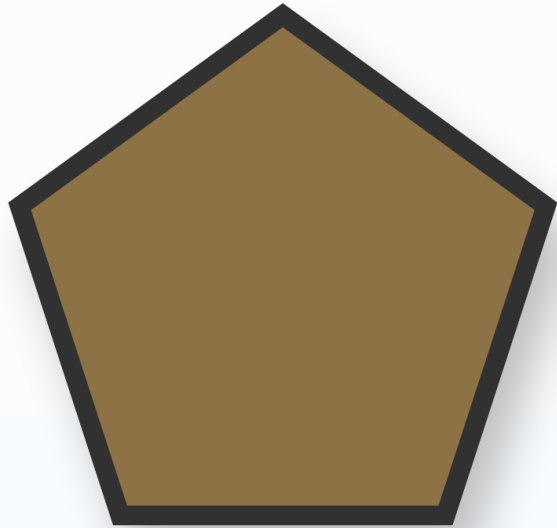
All the sides are the same length.

Rectangle/Oblong



Rectangles have 4 sides and 4 corners.
They have 2 long sides and 2 short sides.

Pentagon



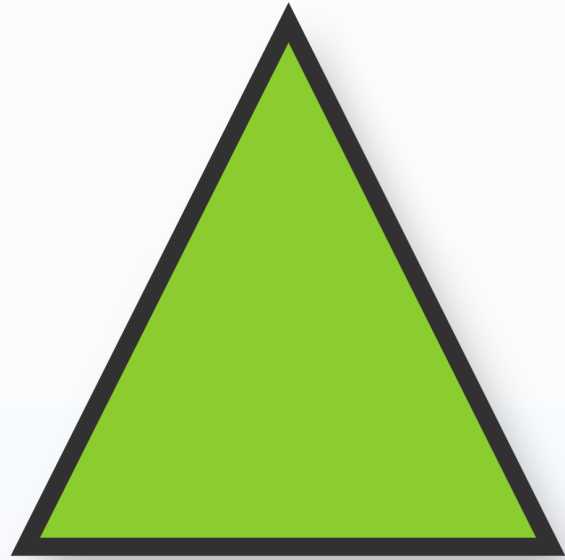
A pentagon has 5 straight sides and 5 corners.

All the sides are the same length in a regular pentagon.



Think about when you hold a pen, you have five fingers.

Triangle

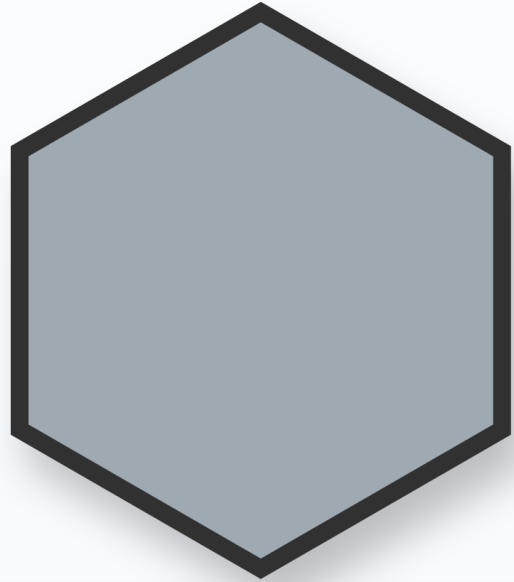


Triangles have 3 sides and 3 corners.



Think about a **tricycle** and how it had **three** wheels.

Hexagon



A hexagon has 6 sides and 6 corners.

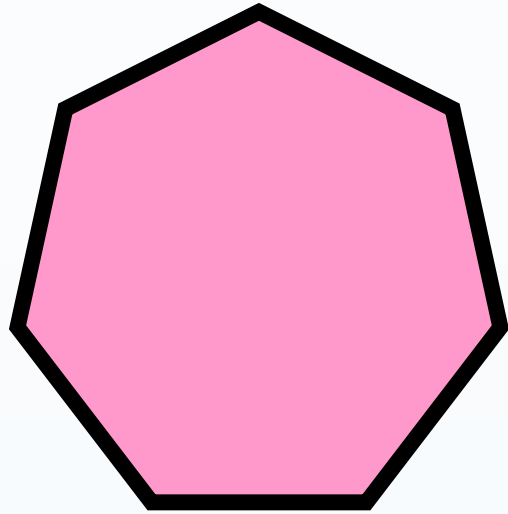
All the sides are the same length in a regular hexagon.

Think about the number six and the
'x' sound.

Six

Six
Hexagon

Heptagon



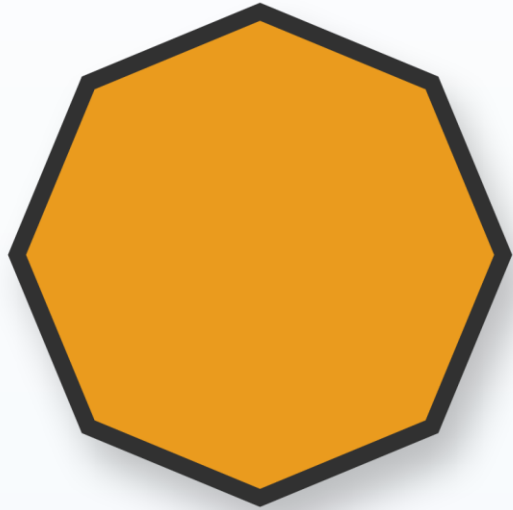
A heptagon has 7 sides and 7 corners.

All the sides are the same length in a regular heptagon.

Think about a **heptathlon** and how it has **seven** events.



Octagon



A octagon has 8 sides and 8 corners.

All the sides are the same length in a regular octagon.

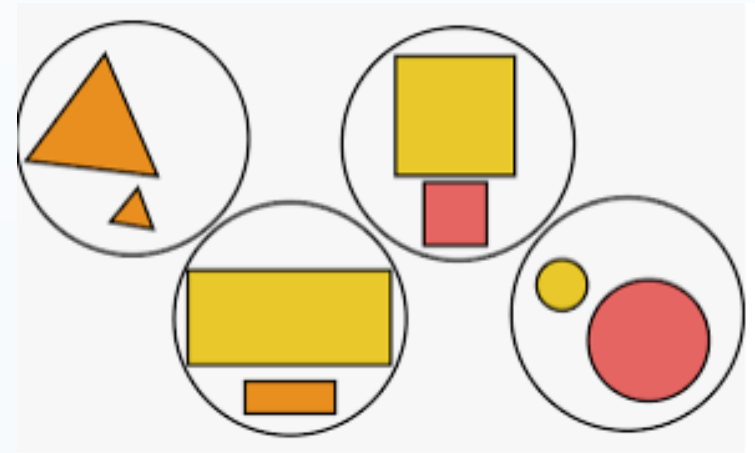


Think about a octopus and how it had eight legs.

Task 1

Sort the shapes into groups...











This could be the name of the shape, the number of sides/vertices.



Task 2

On your table can you fill in the following parts:

- Shape names (you might not know all of them)

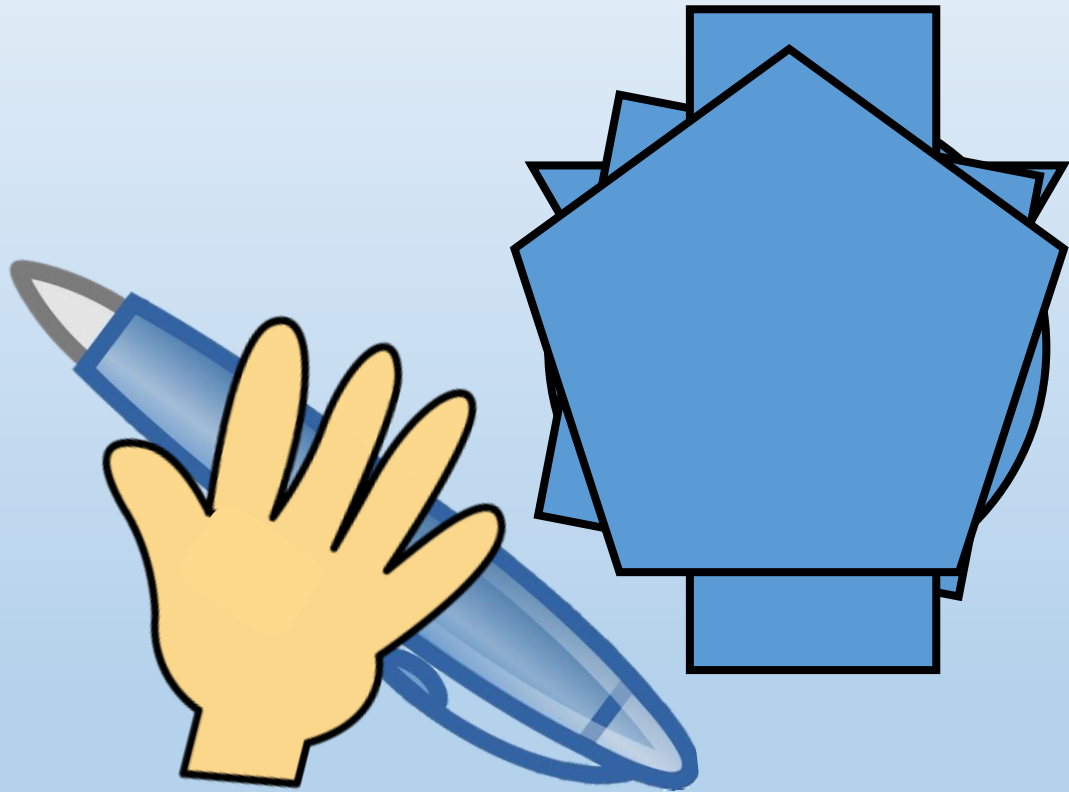
Shape	Name	Number of sides	Number of corners	Regular/Irregular	Lines of symmetry
					
					
					
					
					
					
					
					
					
					

Session 2

Which 2D shapes can you remember?

What is a 2D shape?

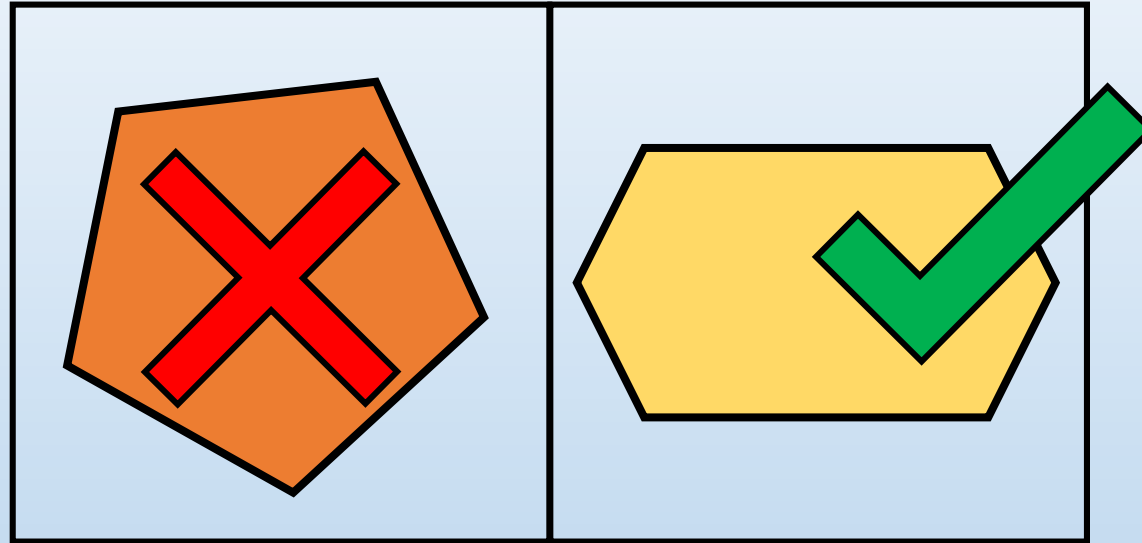
On the next slide, think tell a partner what the shapes are. How can you remember them?



Both six and
hexagon have
an x in them



Which shape is the hexagon?



Have a think

Task 1

Today we are going to walk around school/ the classroom and think about what 2D shapes we can see.

Tally them with a partner.

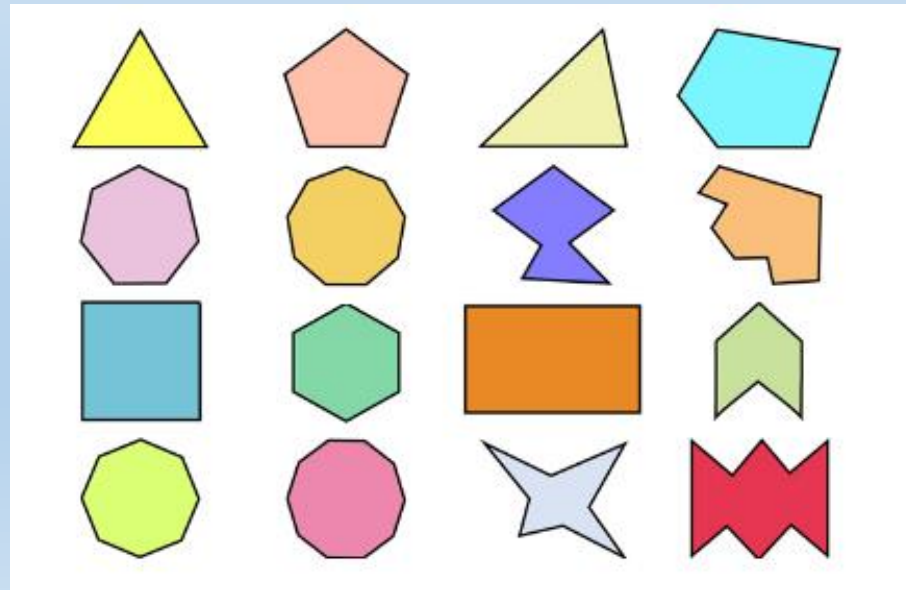
Shape	Tally
Square	
Circle	
Hexagon	

Regular / irregular

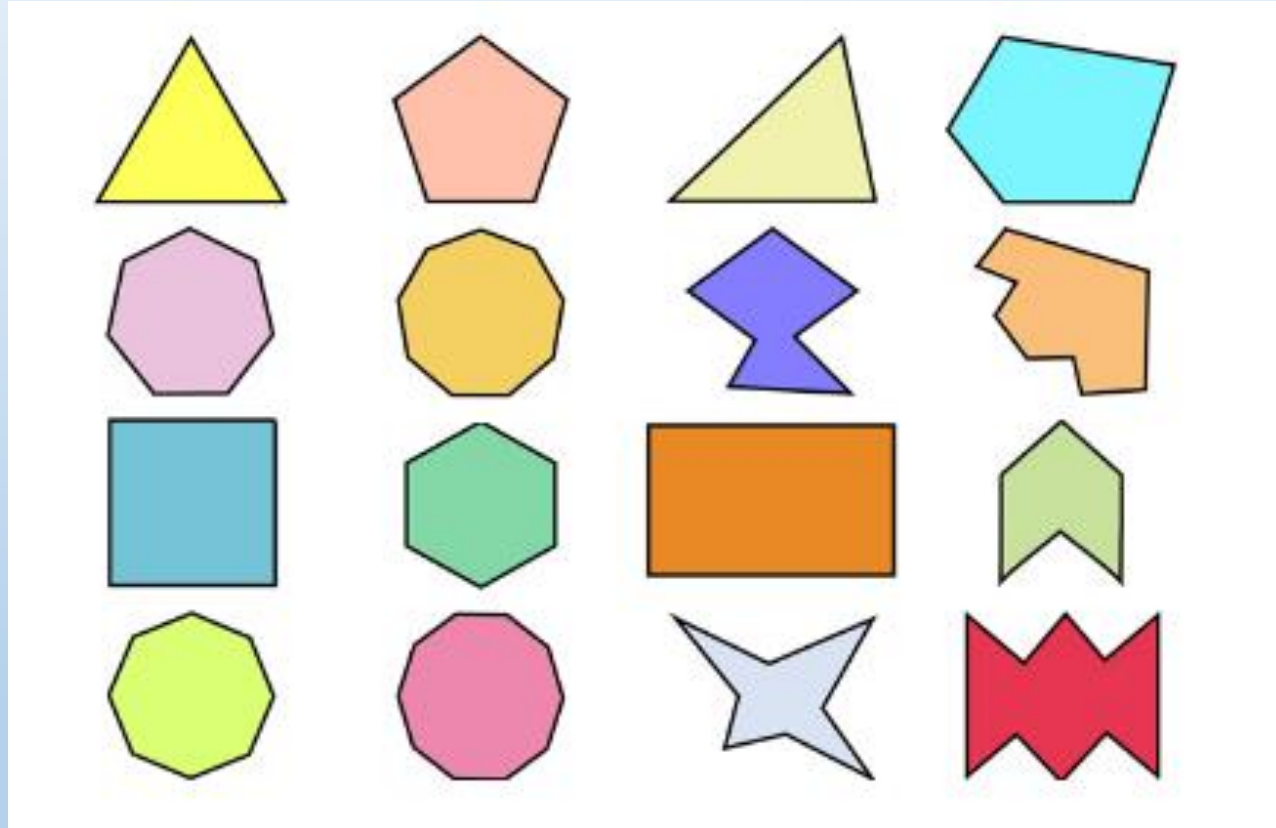
Do you know what the following words mean?

Have a think-

Which shape do you think is regular, which irregular?

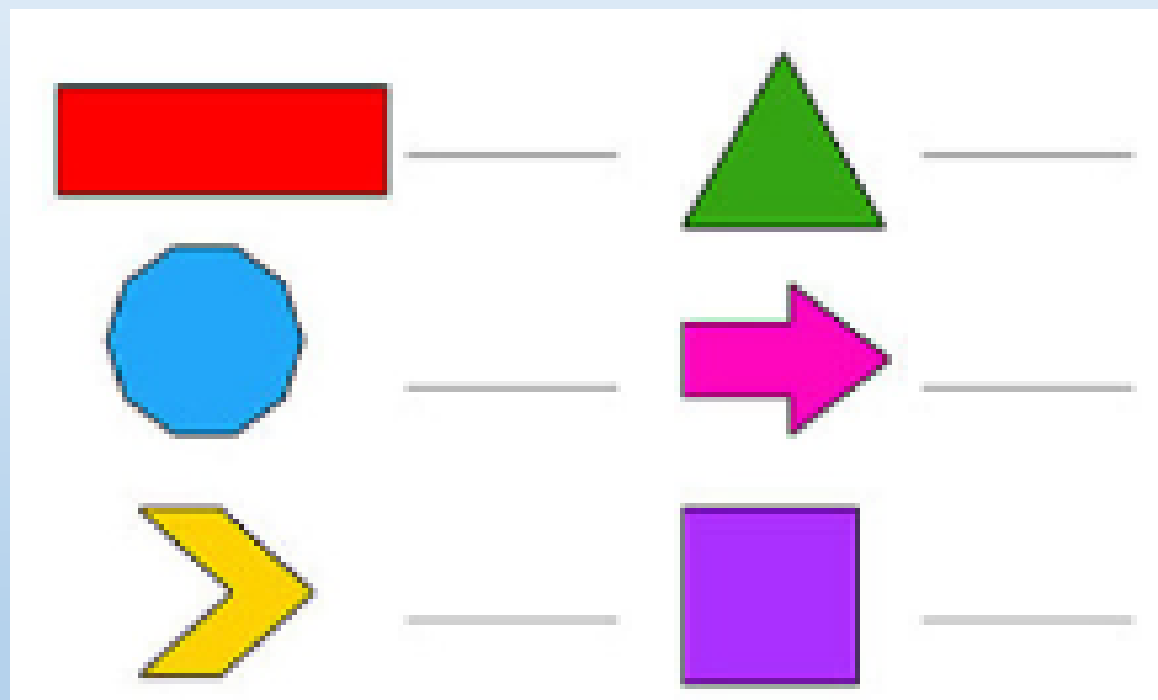


Regular vs Irregular



A **regular** shape has all **sides** and **angles** equal.











Regular or irregular?



Task 2

On your table can you fill in the following parts:

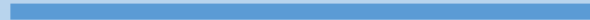
- Shape names
- Number of sides
- Number of vertices
- Regular or irregular

Shape	Name	Number of sides	Number of vertices	Regular/Irregular	Lines of symmetry
					
					
					
					
					
					
					
					
					
					

Session 3

Today we will be looking at symmetry.

Firstly, look at the lines. Which is vertical and which is horizontal?

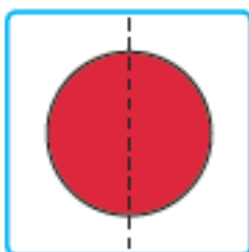
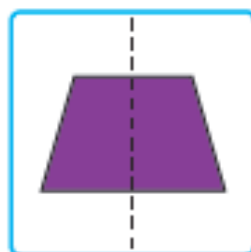
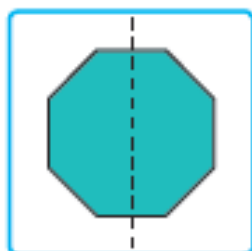
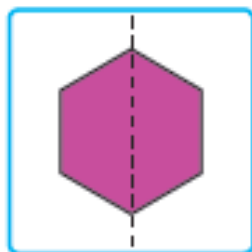
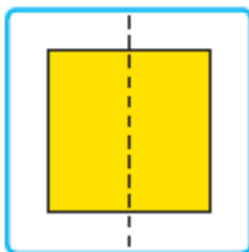


What is symmetry?

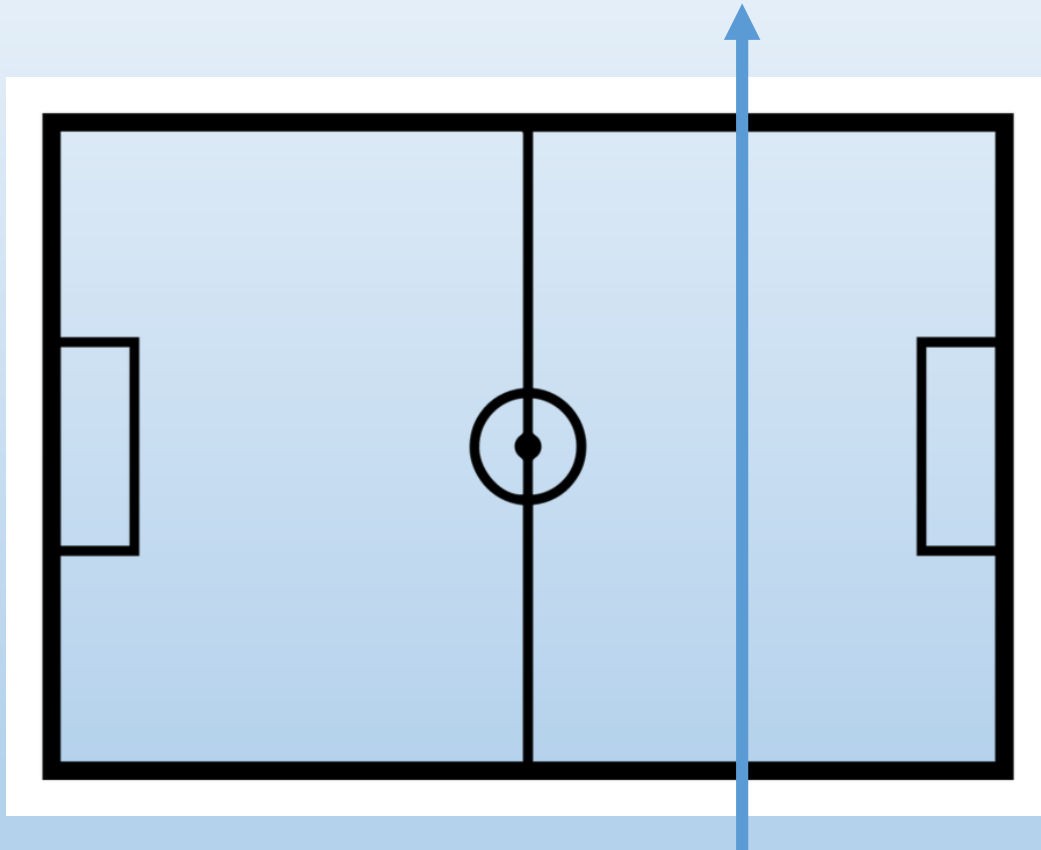
Something is symmetrical if when we cut it in half both halves is exactly the same.

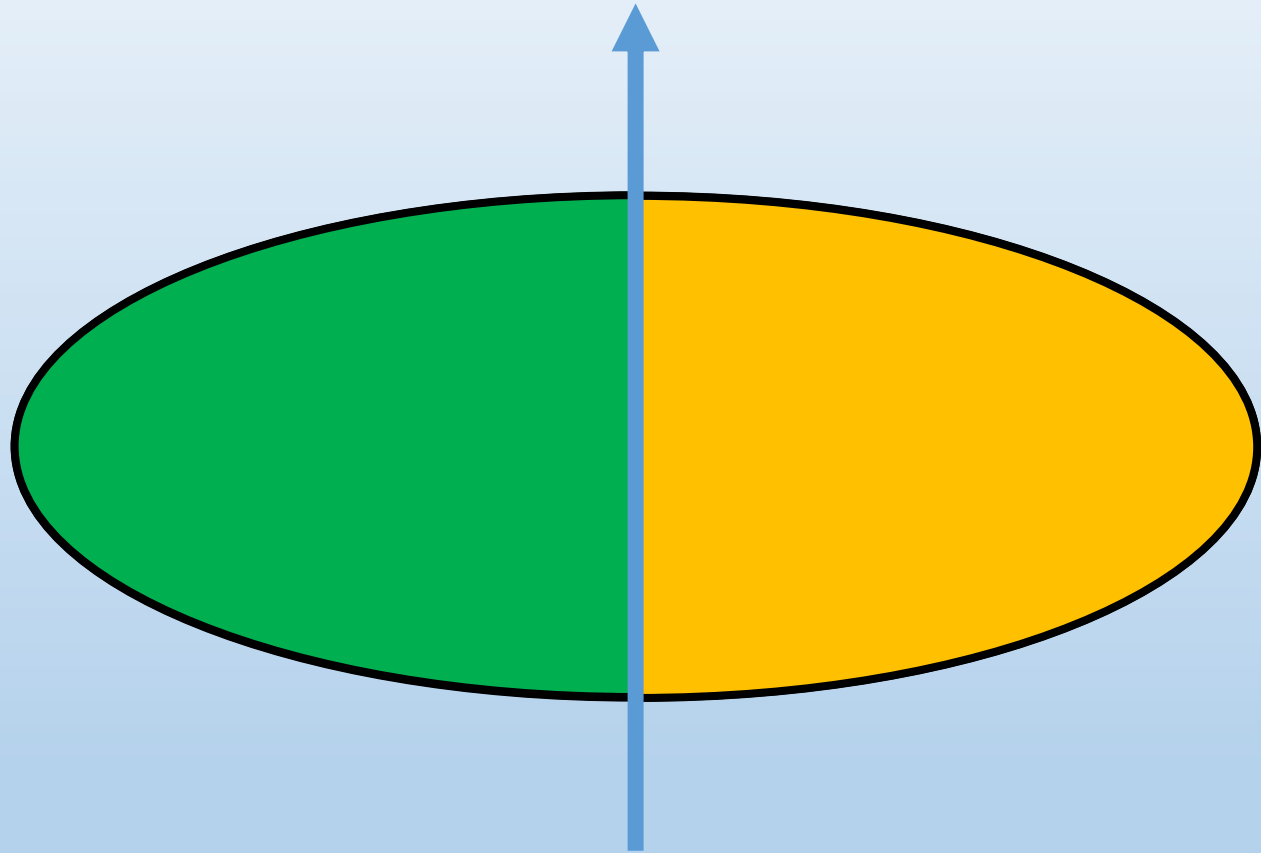
We can check by using a mirror.

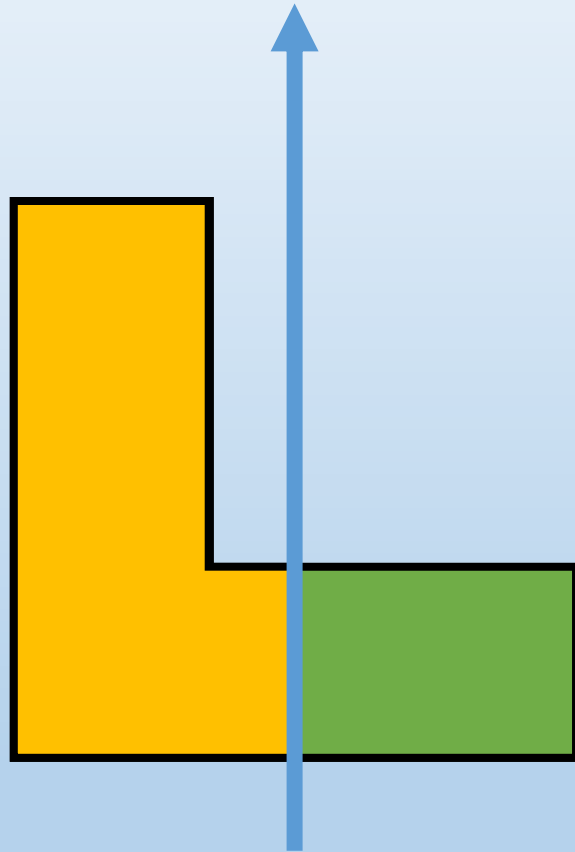
Vertical Lines of Symmetry



What is a vertical line of symmetry?



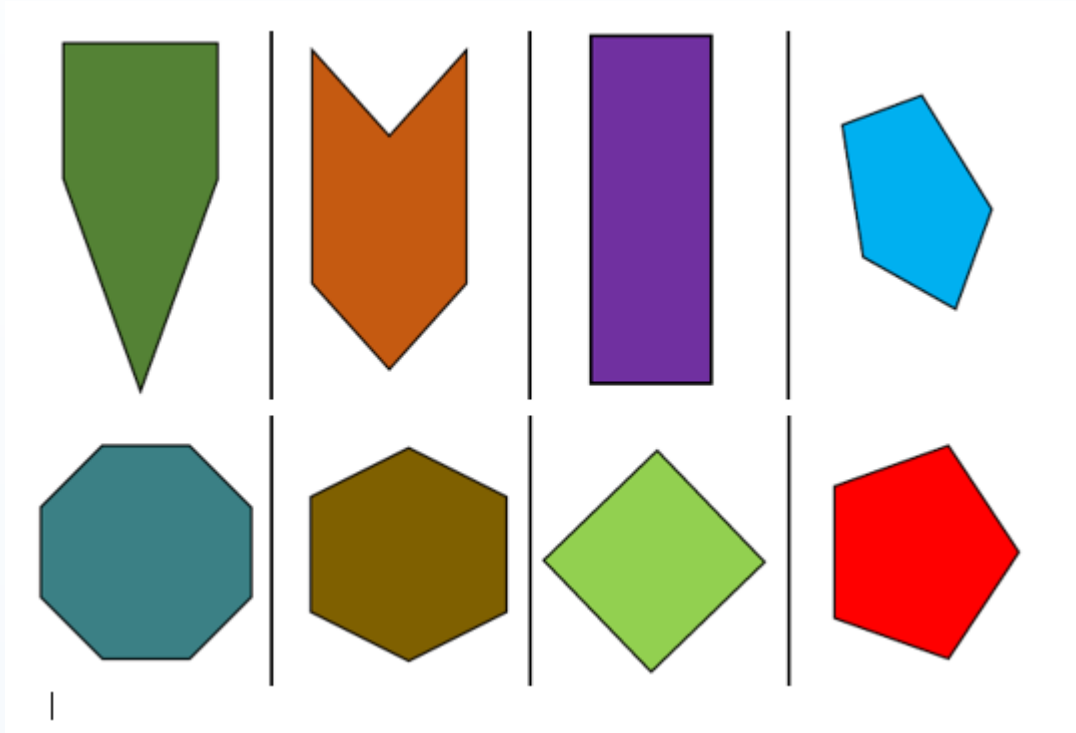




Have a look at the following symmetry lesson on MyMaths...

<https://app.mymaths.co.uk/309-lesson/symmetry>

Task



Cut out the following shapes and see if you can work out how many lines of symmetry they have.

You can also use the mirror to help.

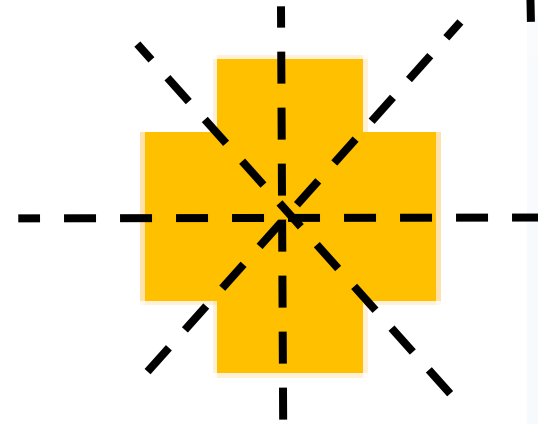
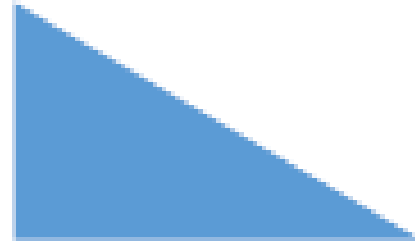
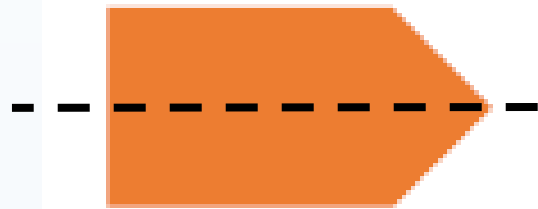
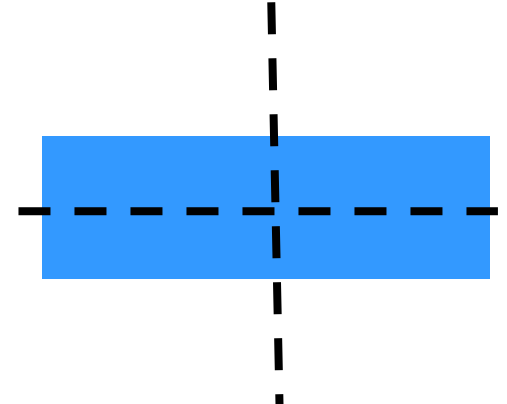
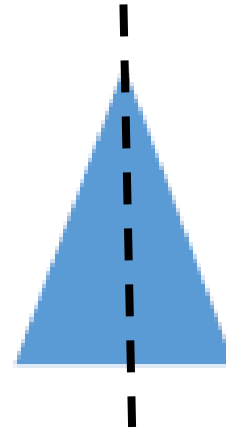
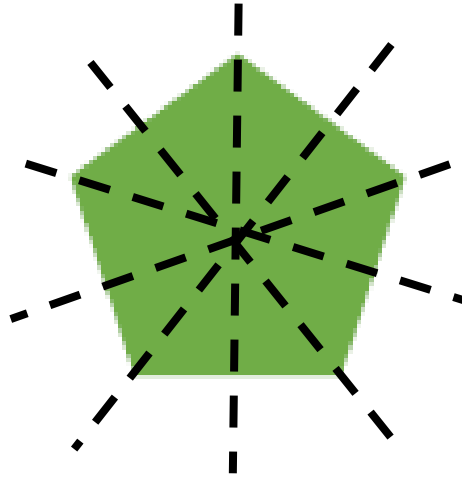
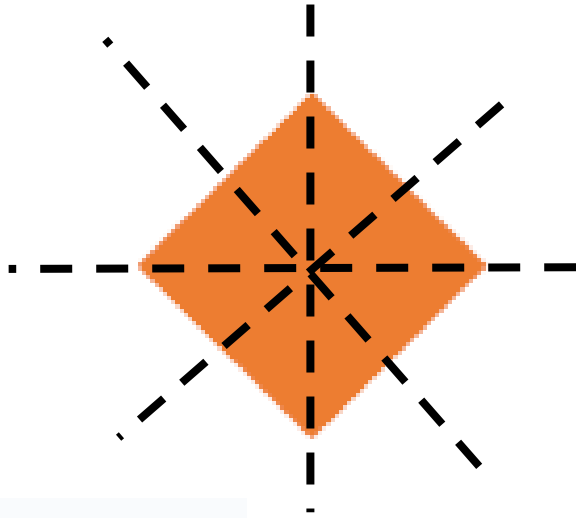
Session 4

Recap:

What is symmetry?

<https://www.bbc.co.uk/bitesize/topics/zrhp34j/articles/z8t72p3>

Where are the lines of symmetry on these shapes?



Task 1

Go through the sheet in class. Use your excellent symmetry knowledge to help you!

Remember vertical symmetry is this way →



Symmetry

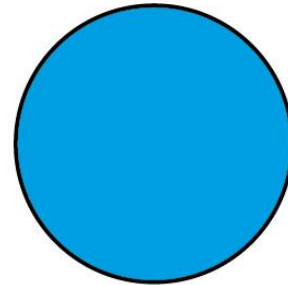
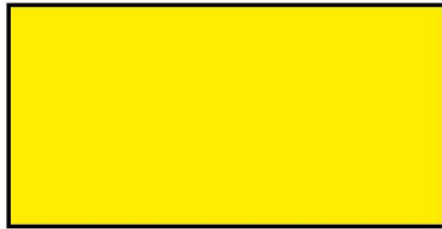
Tick the shapes that have a line of symmetry

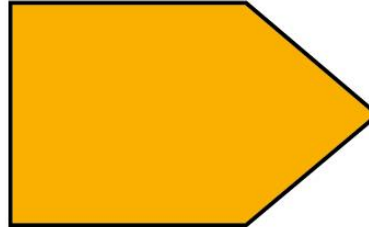
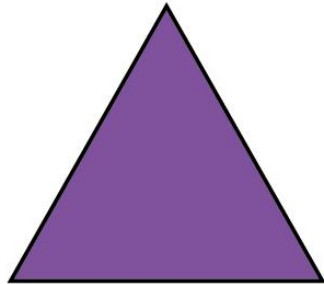
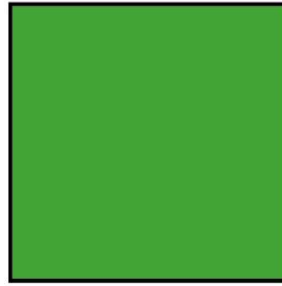
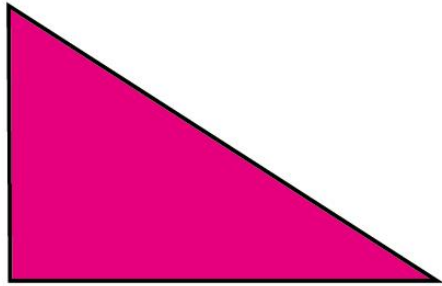
Draw the vertical line of symmetry on each shape.

Annie is drawing a vertical line of symmetry on some shapes. Tick the shapes that have a correct line of symmetry.

Lines of symmetry

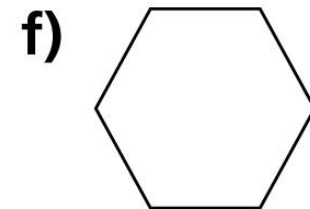
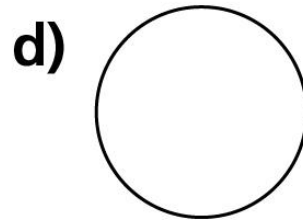
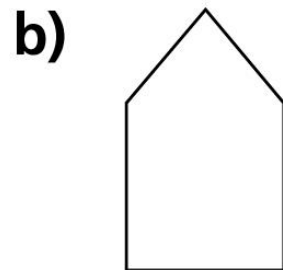
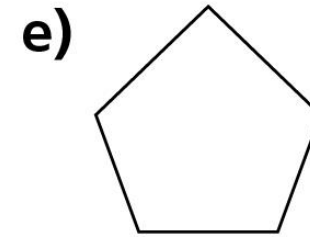
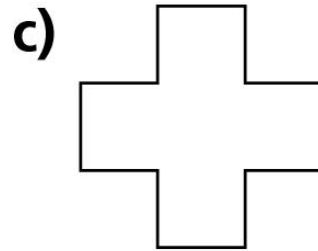
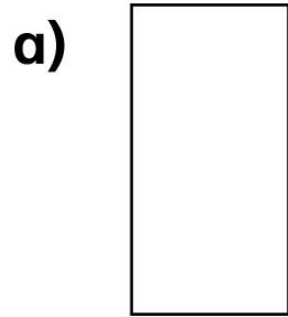
- 1 Tick the shapes that have a vertical line of symmetry.







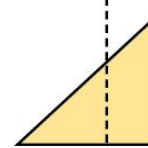
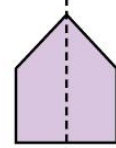
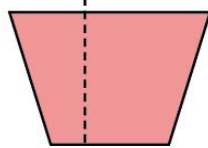
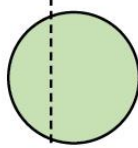
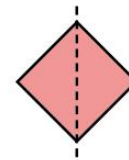
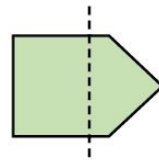
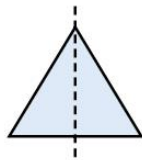
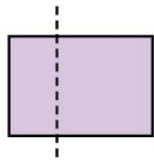
2 Draw the vertical line of symmetry on each shape.





- 3 Annie is drawing a vertical line of symmetry on some shapes.

Tick the shapes that have a correct line of symmetry.



Talk to a partner about any mistakes Annie has made.

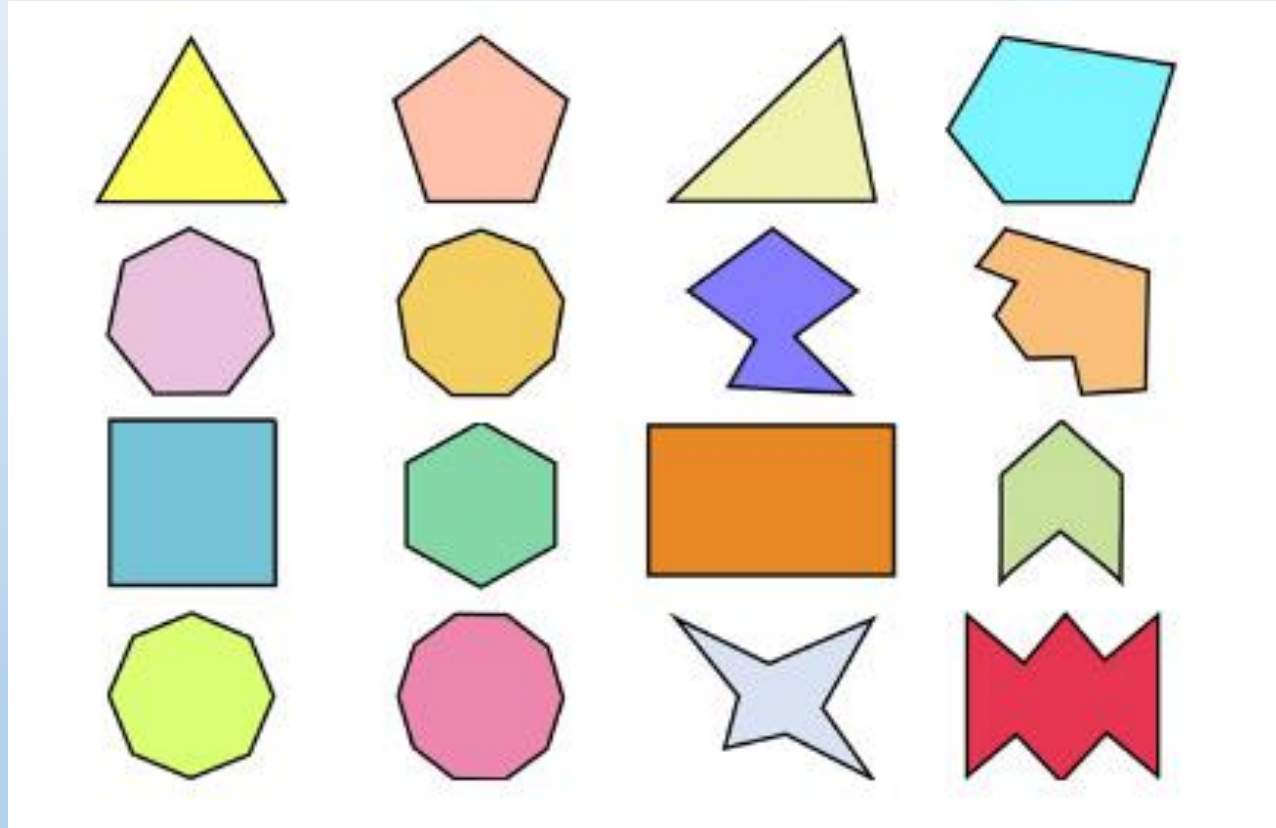


Irregular/ Regular

Recap:

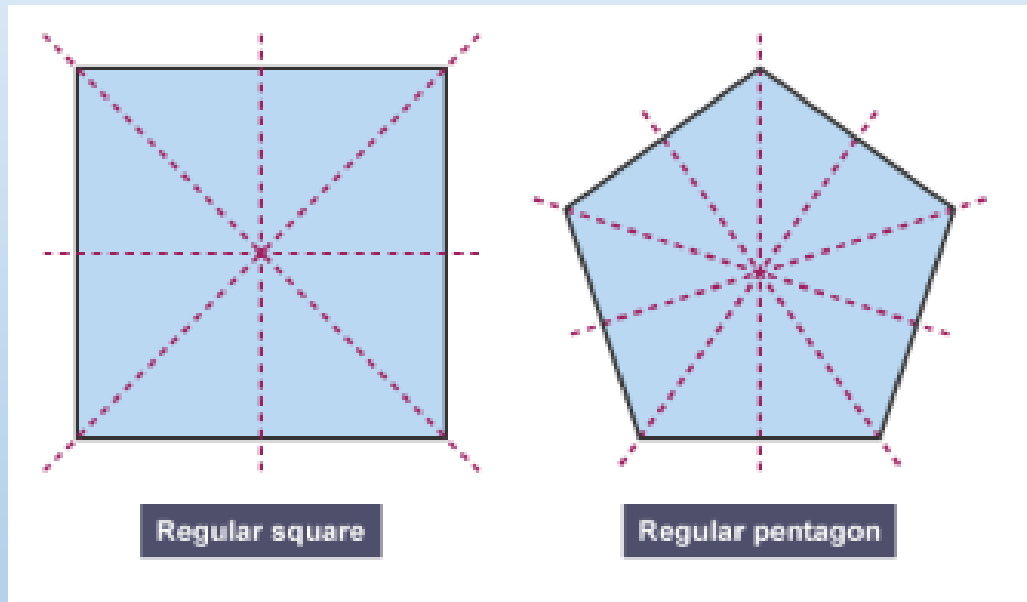
What do they mean?

Regular vs Irregular

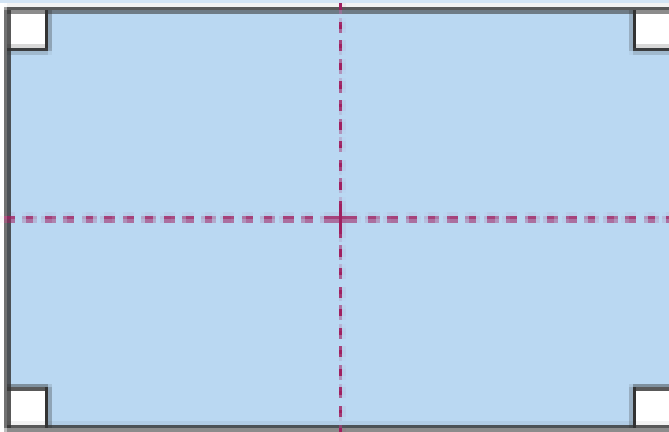


A **regular** shape has all **sides** and **angles** equal.

A regular shape usually has the same number of lines of symmetry as the number of sides



A rectangle has 4 lines of symmetry?
True or False?



Task 2

On your table can you fill in the following parts:

➤ Lines of symmetry

Shape	Name	Number of sides	Number of corners	Regular/Irregular	Lines of symmetry
