

Wednesday 29<sup>th</sup> April 2020

WALT identify angles and lines within 2D shapes

ROCKSTARS! (5 minutes)

<https://play.trockstars.com/auth/school>



## Recap

Mark 3 sets of parallel lines and 3 sets of perpendicular lines in this flag.

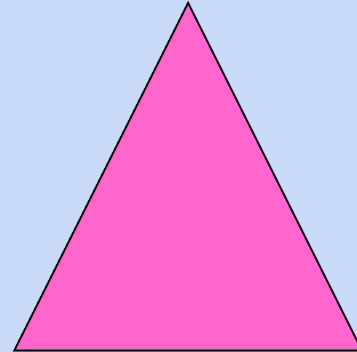
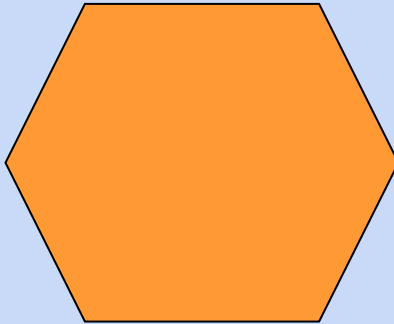
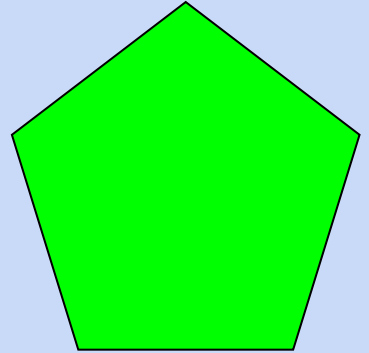
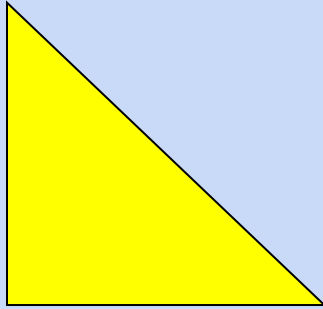
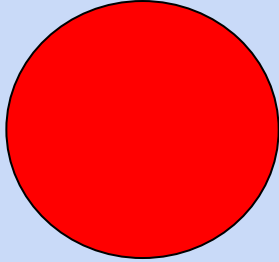
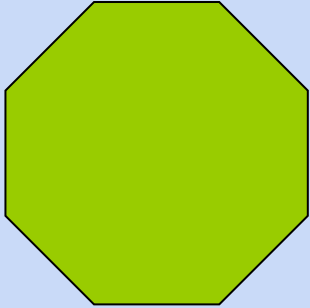


Design your own flag containing parallel and perpendicular lines.

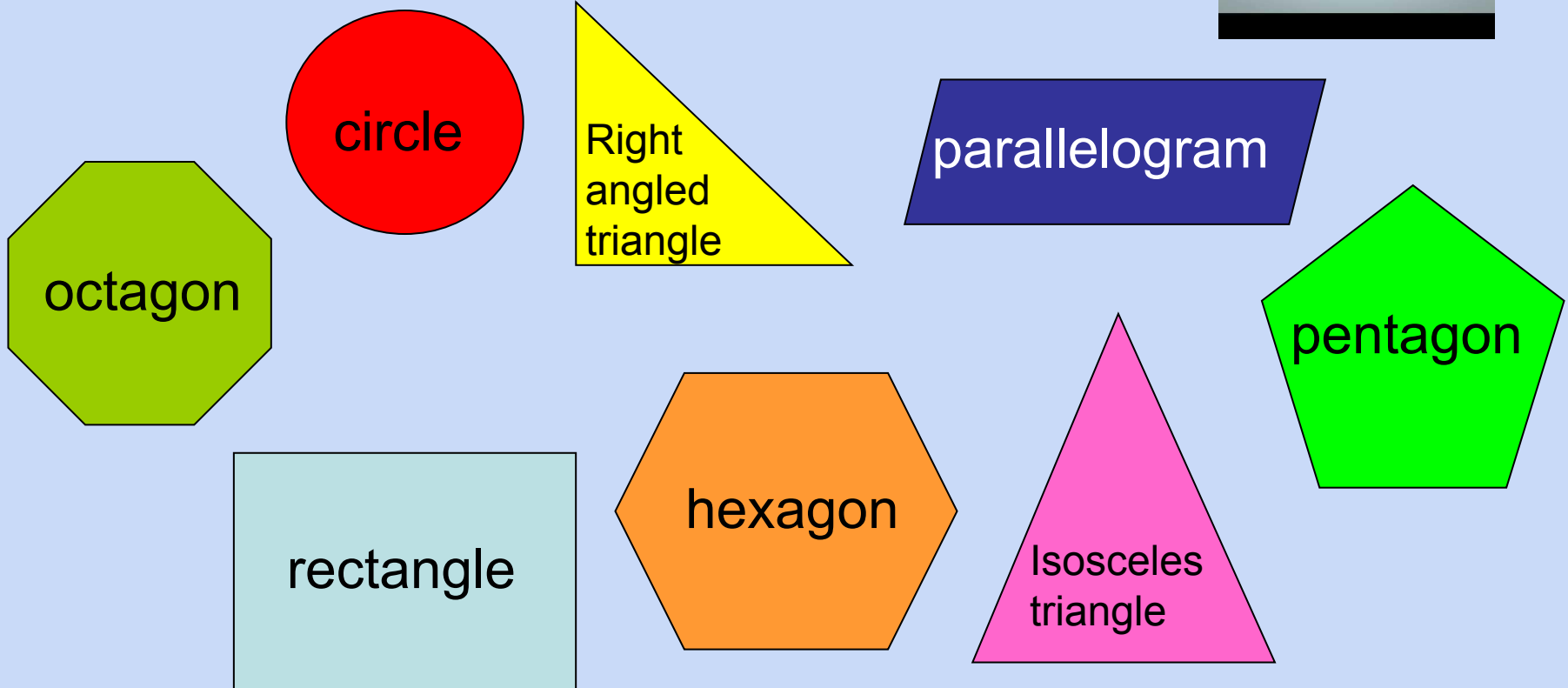
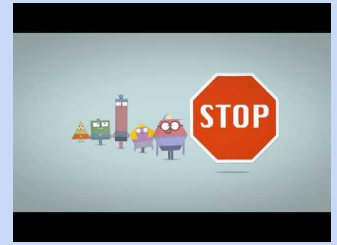
1. Draw the flag into your book.
2. Use arrows and right angles to find the parallel lines and perpendicular lines.

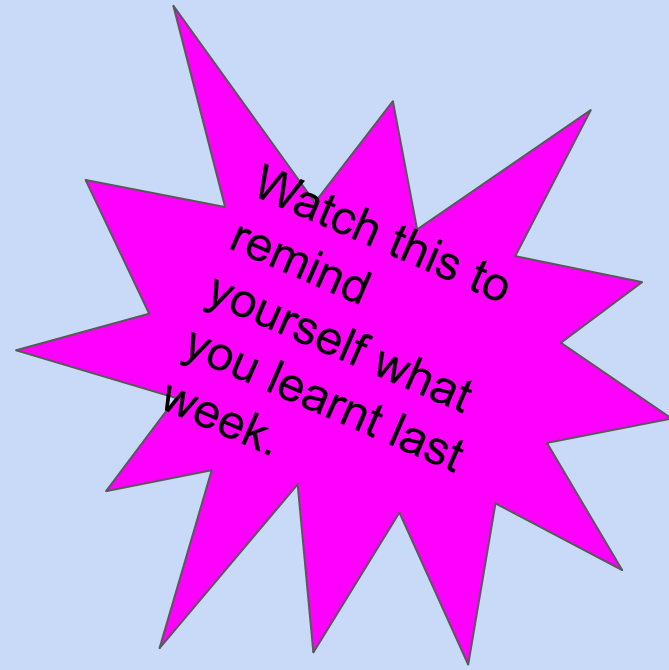
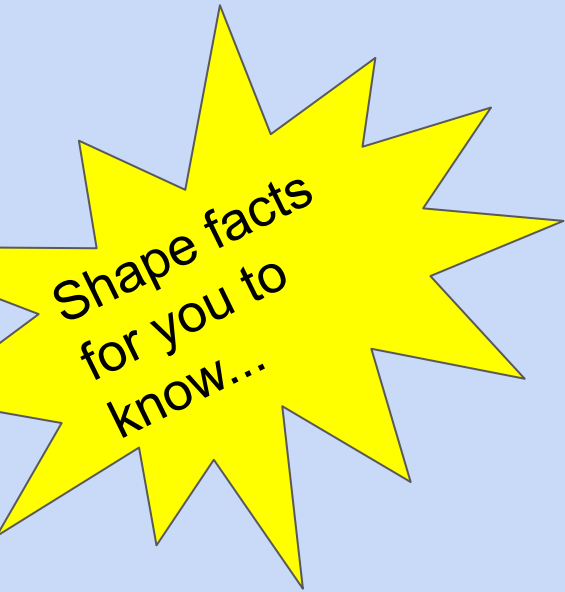
# Task 1

Can you name all of these 2D shapes?



# Task 1 - Answers. Watch this to find out more!





- ★ 2D shapes are also called **plane shapes**.
- ★ **Polygons** are straight sided shapes.
- ★ Quadrilaterals are **four-sided shapes**.

# Task 2

Answer these questions in your book.

1. Describe this quadrilateral.



It has \_\_\_\_ angles.  
It has \_\_\_\_ right angles.  
It has \_\_\_\_ obtuse angle.  
It has \_\_\_\_ acute angle.  
It has \_\_\_\_ lines of symmetry.

2. Choose one of these 2-D shapes and describe it to a friend thinking about the angles, types of lines it is made up of and whether it has any lines of symmetry. Can your friend identify the shape from your description?



3.

Rosie describes a 2-D shape.



My shape has 2 pairs of parallel sides. The lengths of the sides are not all equal.

Draw the shape that Rosie is describing.

Could this square be Rosie's shape?



Explain why.

4.

Draw at least one shape in each section of the diagram.

	At least one right angle	No right angles
4 sided		
Not 4 sided		

# Answers

1. It has 4 angles.  
It has 2 right angles  
It has 1 obtuse angle.  
It has 1 acute angle.  
It has no lines of symmetry.

2.



A right angled triangle has 1 right angle and 1 pair of perpendicular lines.



A trapezium has 2 acute angles, 2 obtuse angles and 2 sets of parallel lines.



A pentagon has 5 obtuse angles, and no parallel or perpendicular lines.



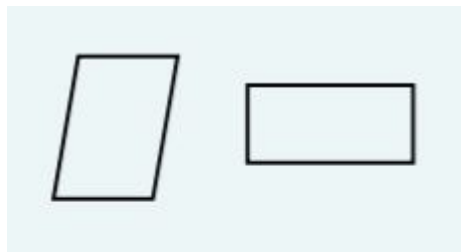
A trapezium has 2 acute angles, 2 obtuse angles, and 1 pair of parallel lines.



The arrow has 2 acute angles, 2 right angles, 1 obtuse angle and 1 pair of parallel lines and 2 pairs of perpendicular lines.





3.



No this can't be Rosie's shape, because the lengths of the sides are equal.

4.

Draw at least one shape in each section of the diagram.

	At least one right angle	No right angles
4 sided		
Not 4 sided	