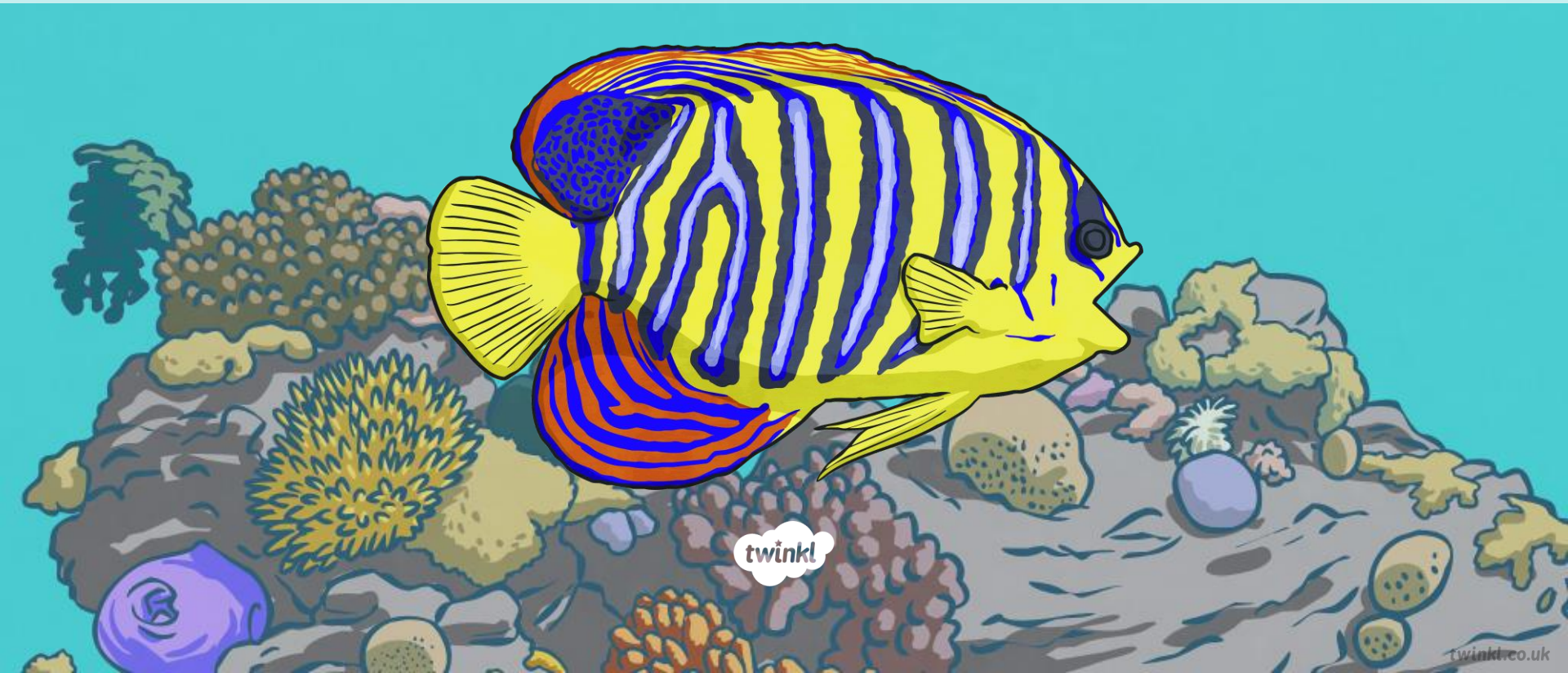




Maths

Properties of Shapes

Angles in 2D Shapes and Turns



Aim

- I can identify angles in 2D shapes and turns.

Success Criteria

- I can describe a right angle.
- I can find right angles in 2D shapes.
- I can describe a right angle turn.

True or False?



I have five straight sides.



True



False

True or False?



My five straight sides are all the same length.



True



False

True or False?



I have six interior angles.



True



False

True or False?



My interior angles are all the same size.

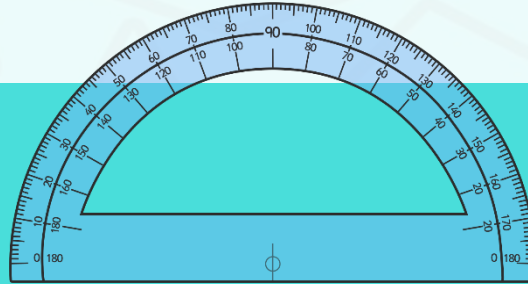


True

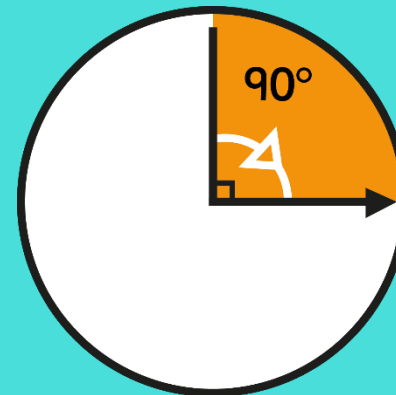
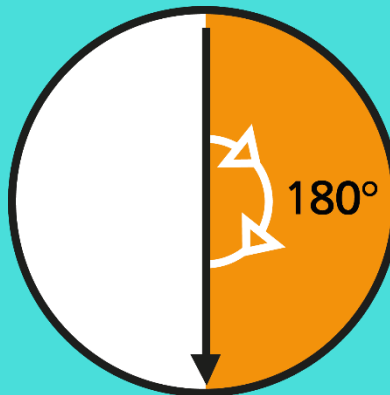
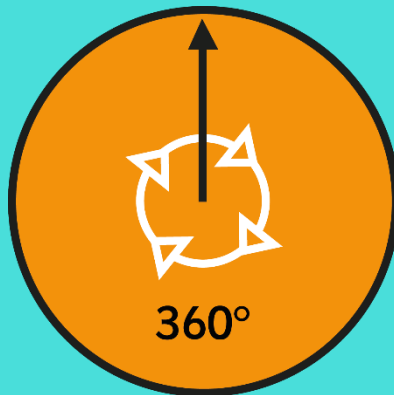


False

Right Angles



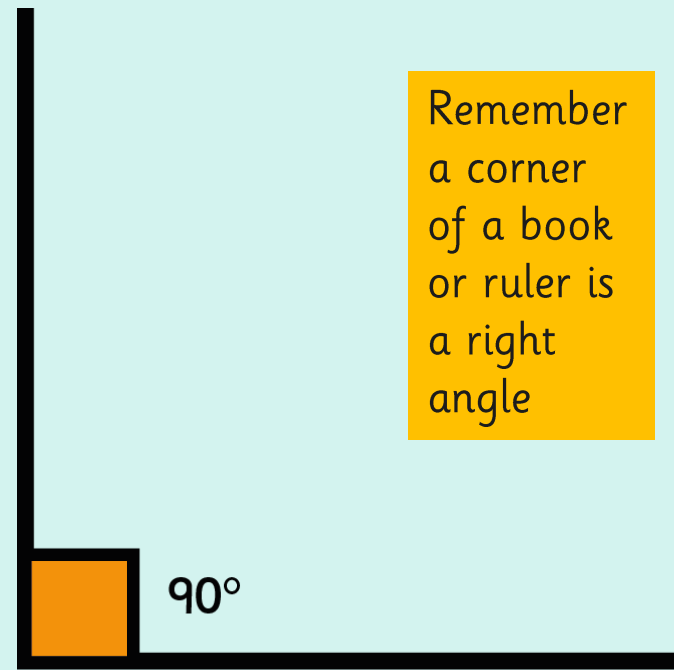
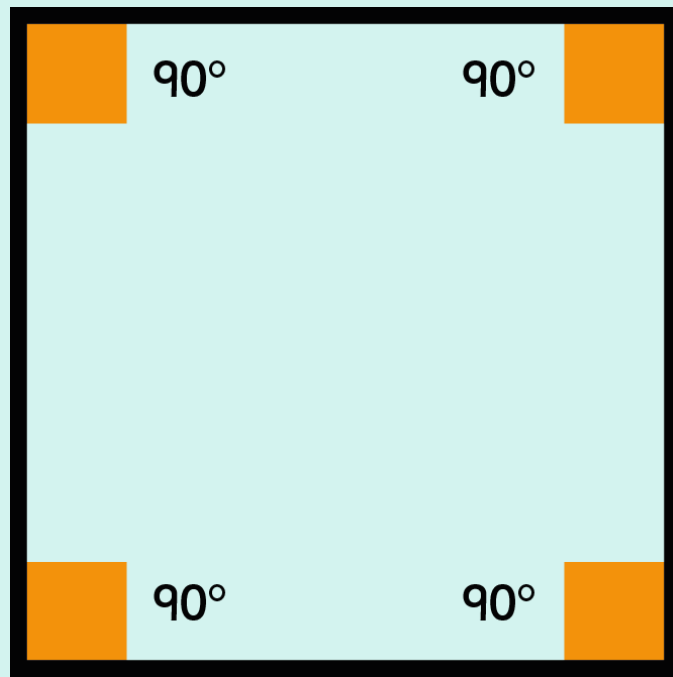
The meeting of two lines is called an angle. Angles are measured in degrees using a protractor. In a circle there is a complete rotation. This is 360° (degrees). This means that in half a rotation there is 180° and 90° in a quarter rotation.



Right Angles

Angles that are 90° are called right angles and are marked with small squares.

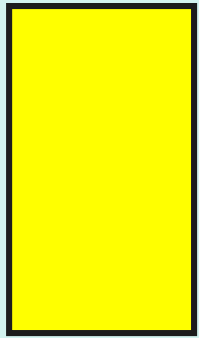
A right angle is formed by the intersection of 2 perpendicular lines.



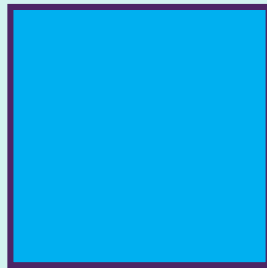
Remember
a corner
of a book
or ruler is
a right
angle

Right Angles in 2D Shapes

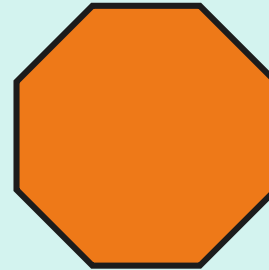
We can use our right angle finder to investigate which 2D shapes have a 90° angles.



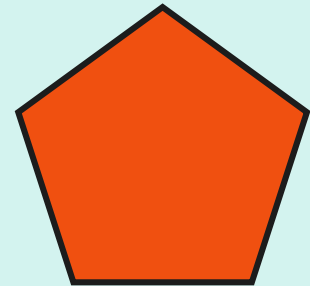
rectangle



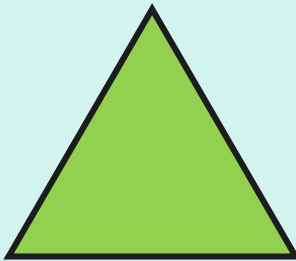
square



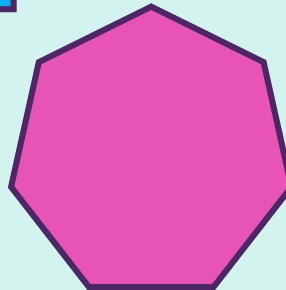
octagon



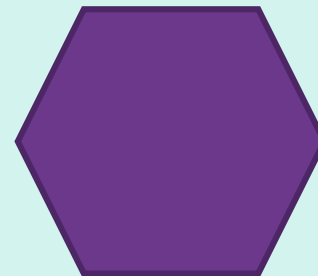
pentagon



triangle



heptagon

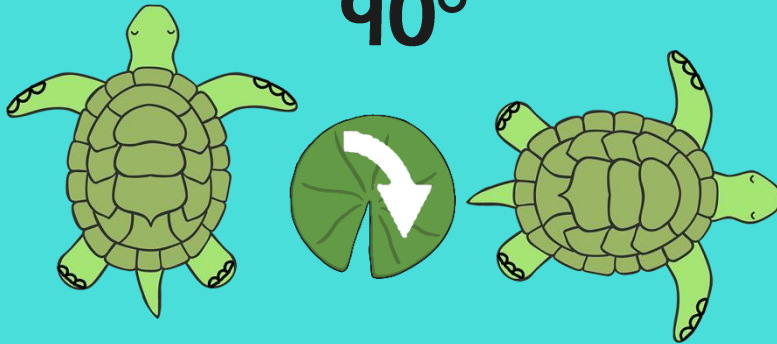


hexagon

Angles in Turns

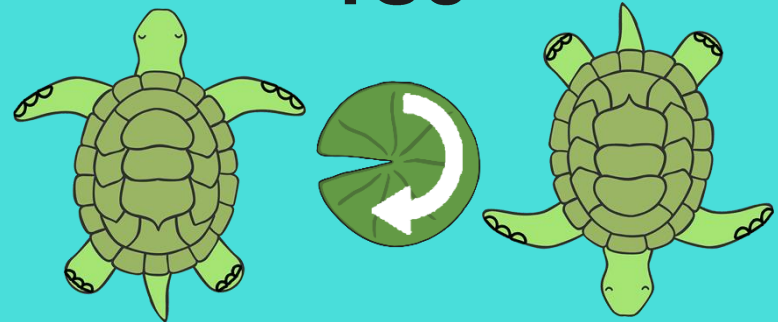


90°



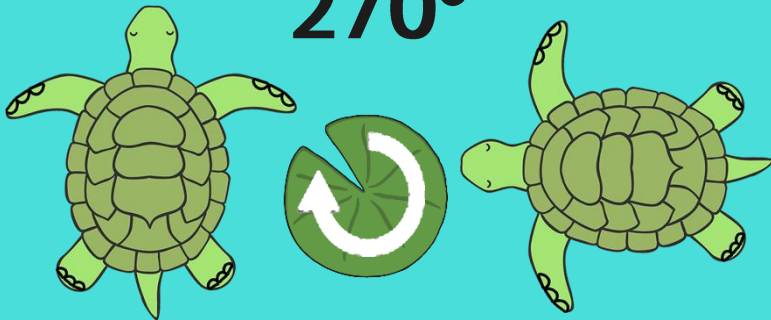
One quarter turn clockwise

180°



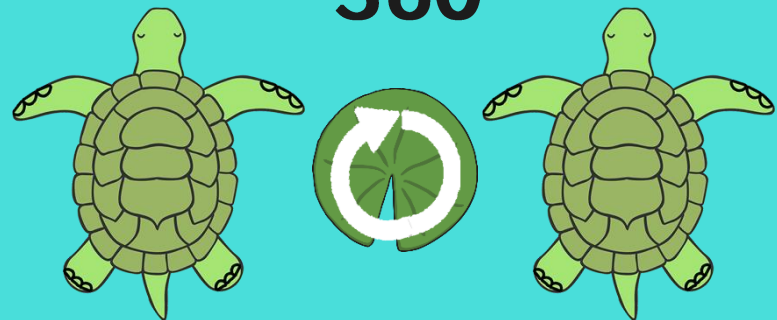
One half turn clockwise

270°



One three-quarter turn clockwise

360°

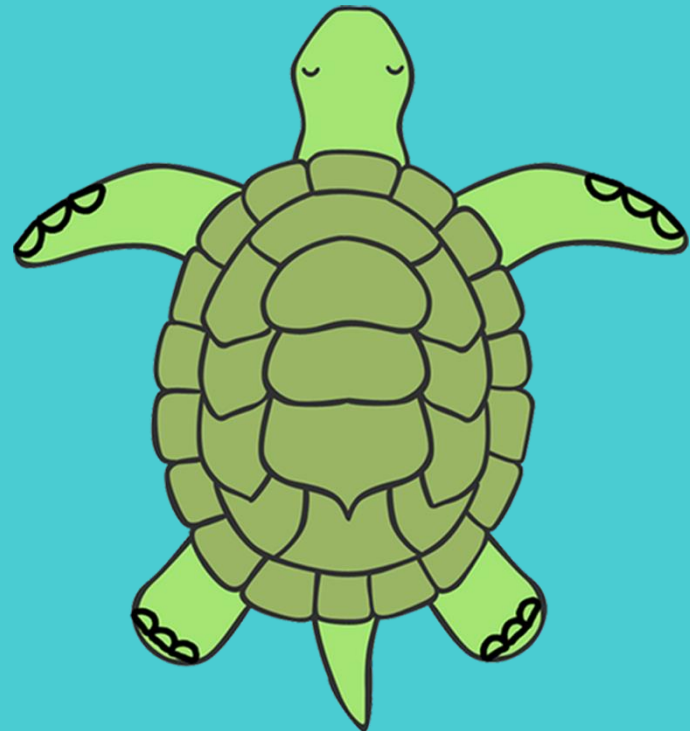


One whole turn clockwise

Angles in Turns



1. Can you make a 90 degree turn clockwise?
2. What about a half turn?
3. Which way will you be pointing after a 360 degree turn?
4. What does a three-quarter turn look like?



Right Angles in 2D Shapes



Right Angles in 2D Shapes

Can you find any right angles inside these shapes? Draw a square to show where you find a right angle. One has been done for you.

Right Angles in 2D Shapes

Can you find any right angles inside these shapes? Draw a square to show where you find a right angle. One has been done for you.

Right Angles in 2D Shapes

Can you find any right angles inside these shapes? Draw a square to show where you find a right angle. One has been done for you.

Extension: Can you write the names of the 2D shapes?

Maths 1 Year 3 | Properties of Shapes | Angles | Lesson 1 of 1 | Angles in 2D Shapes and Rungs

Aim



- I can identify angles in 2D shapes and turns.

Success Criteria

- I can describe a right angle.
- I can find right angles in 2D shapes.
- I can describe a right angle turn.

