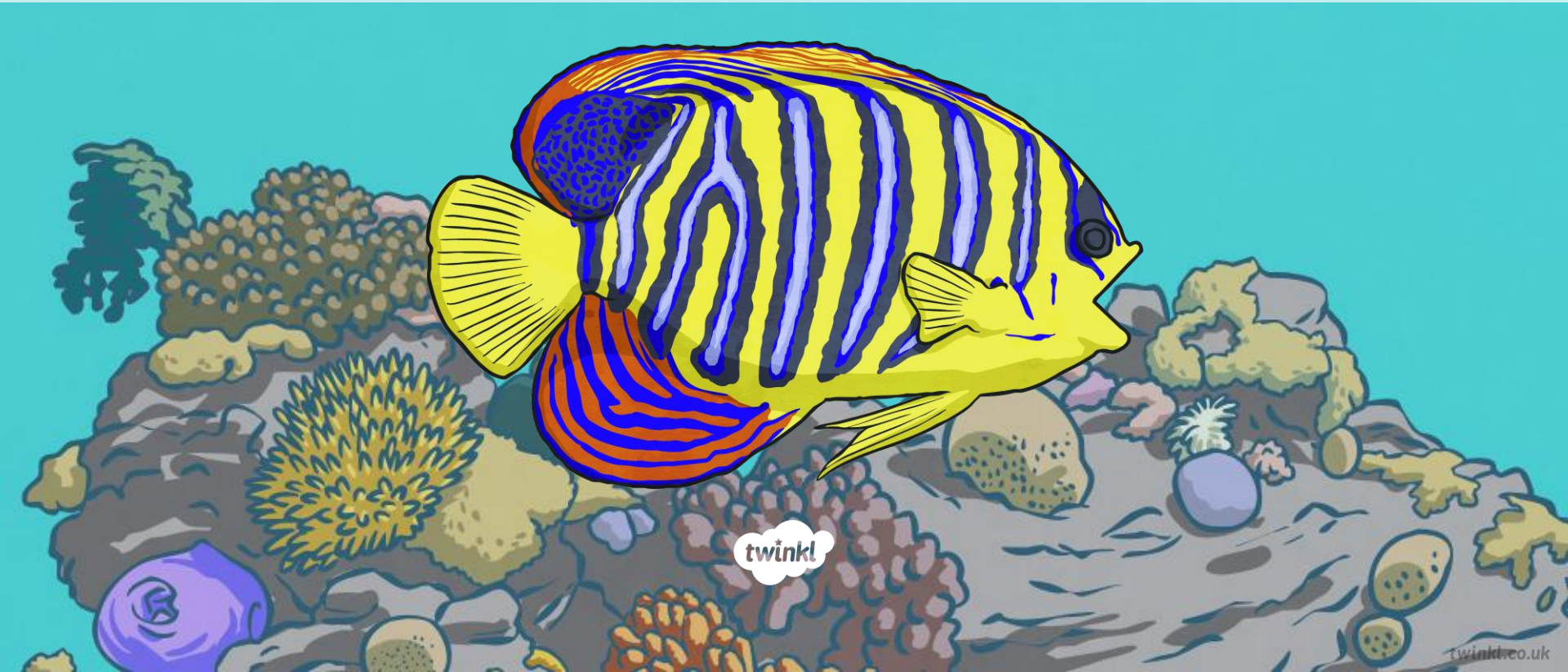
Maths

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

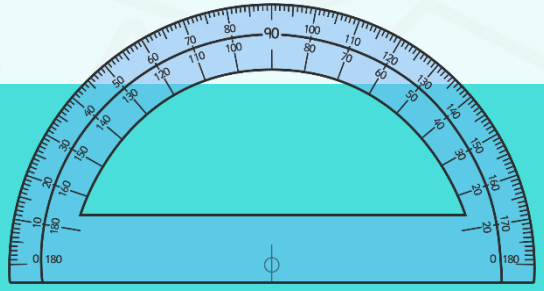
True or False?

My interior angles are all the same size.

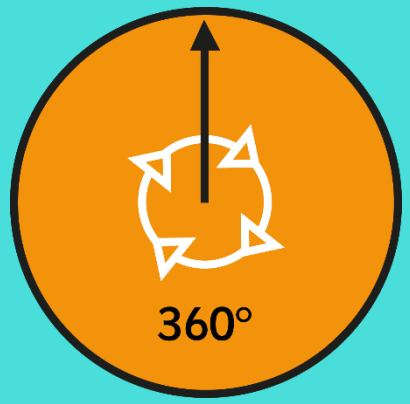
True

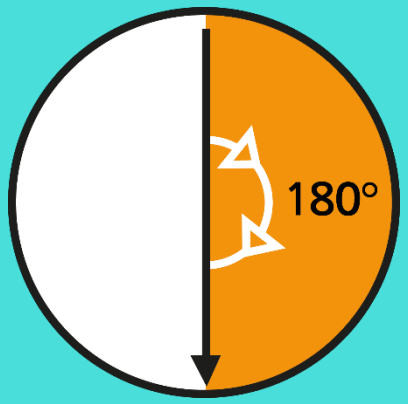
False

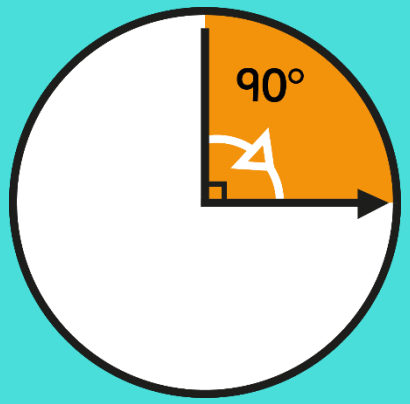
Right Angles



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.



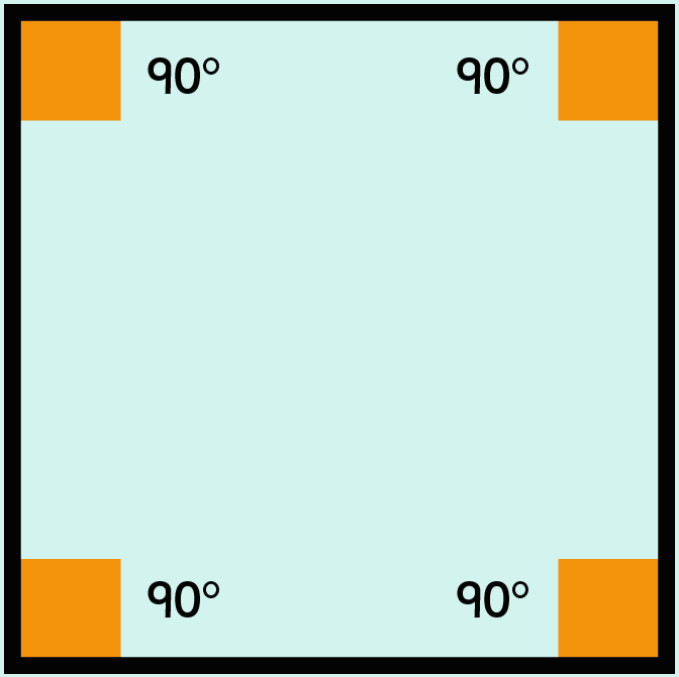


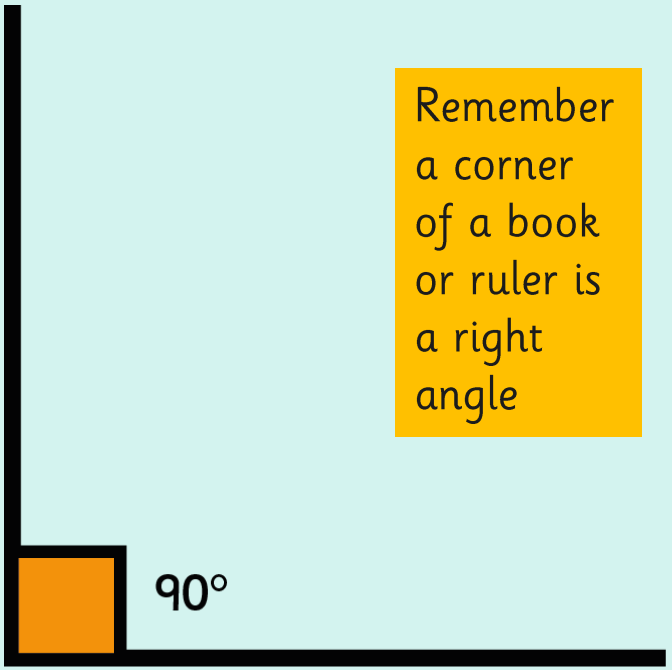


Right Angles

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.

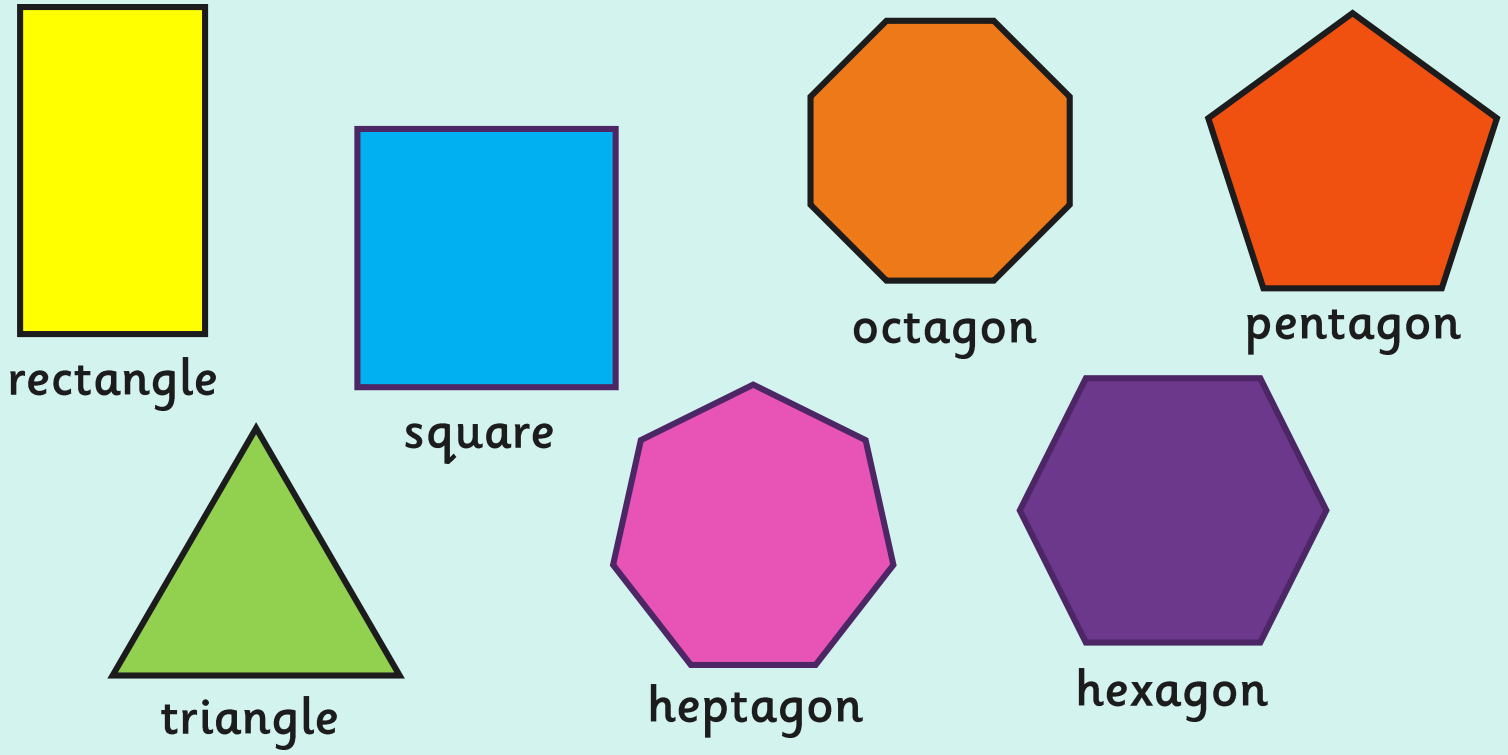




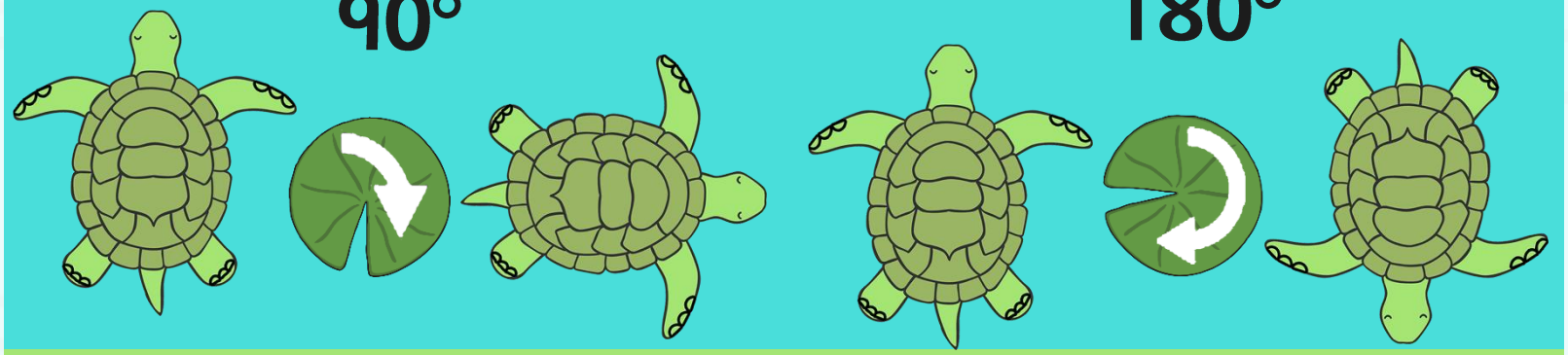
Remember a corner of a book or ruler is a right angle

Right Angles in 2D Shapes

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

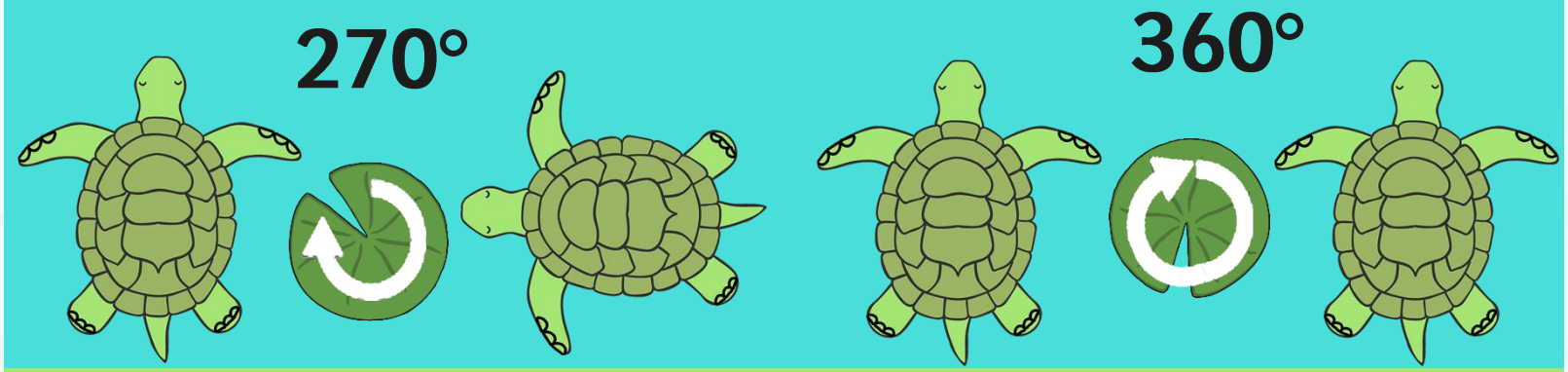


Angles in Turns



One quarter turn clockwise

One half turn clockwise



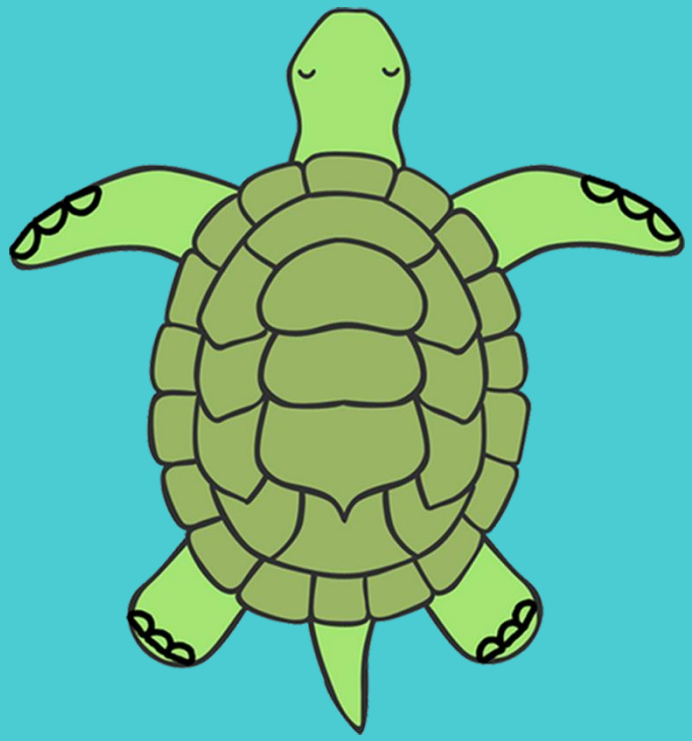
One three-quarter turn clockwise

One whole turn clockwise

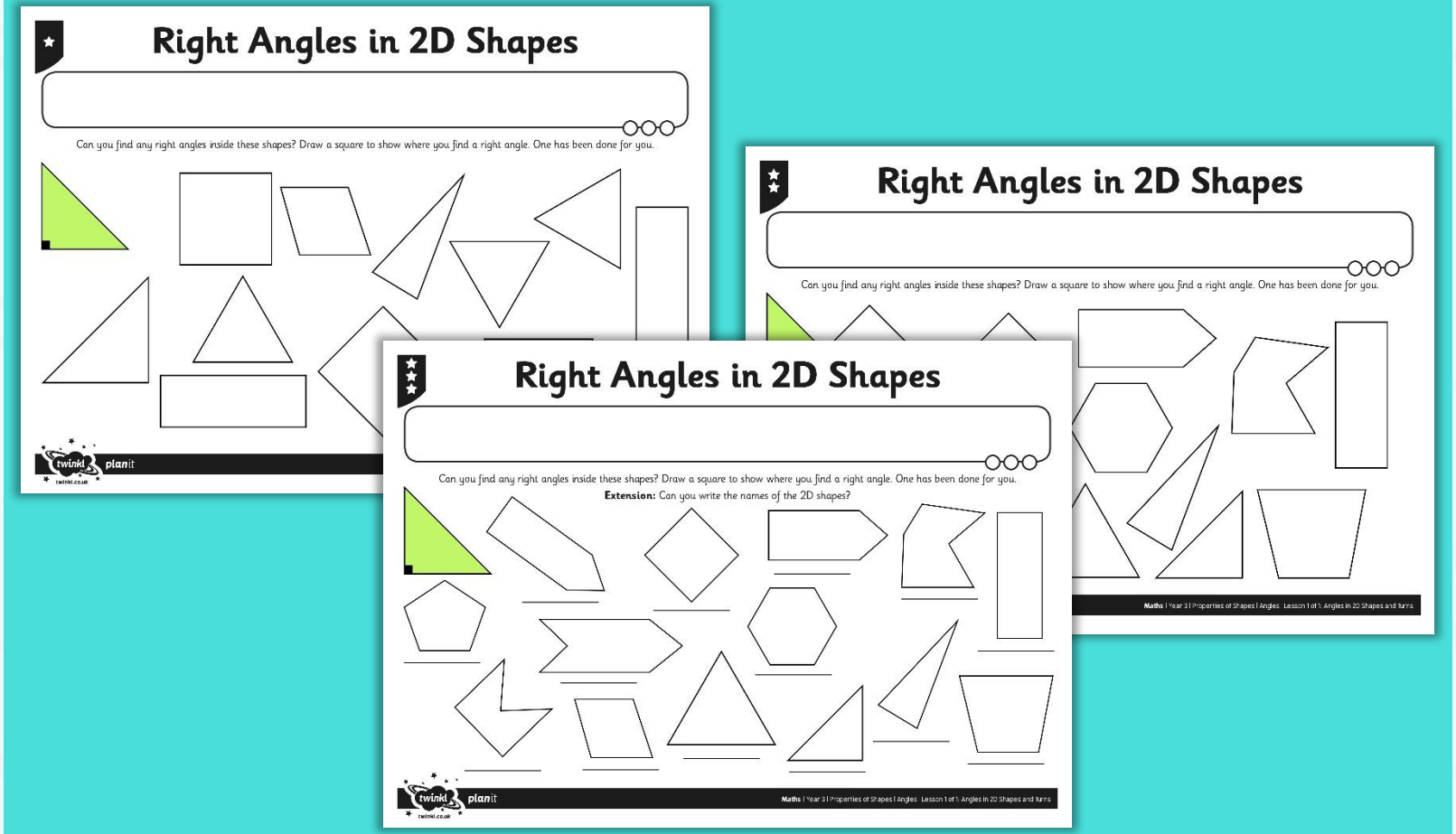
Angles in Turns

Whole Class

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



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