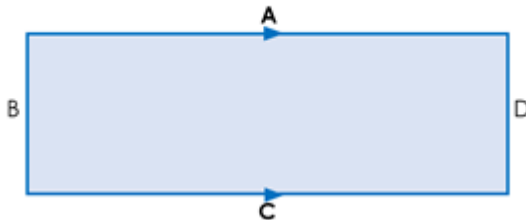**L.O: I am learning to identify lengths in shapes**

Today you will learn how to apply your knowledge of properties of shapes to find missing lengths. You will use square grids to help you reason about lengths and learn to identify parallel and perpendicular lines in shapes.

Answer the questions on the separate worksheet that comes with this assignment. Turn the completed work in so that the teacher can mark and comment on your work.
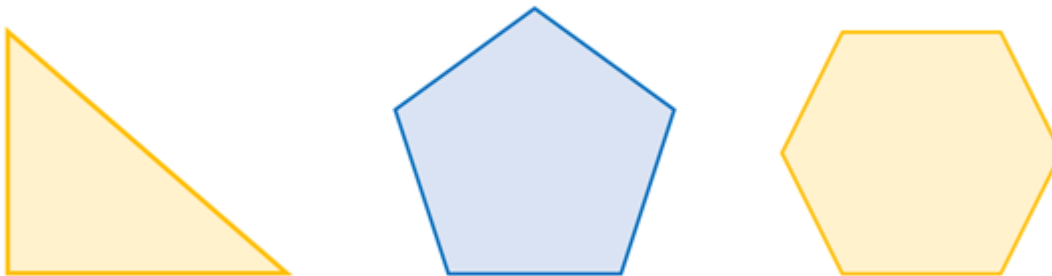
Parallel Lines

Parallel lines are the same distance apart and they never meet.

Line A is parallel to **Line C**   **Line B** is parallel to **Line D**
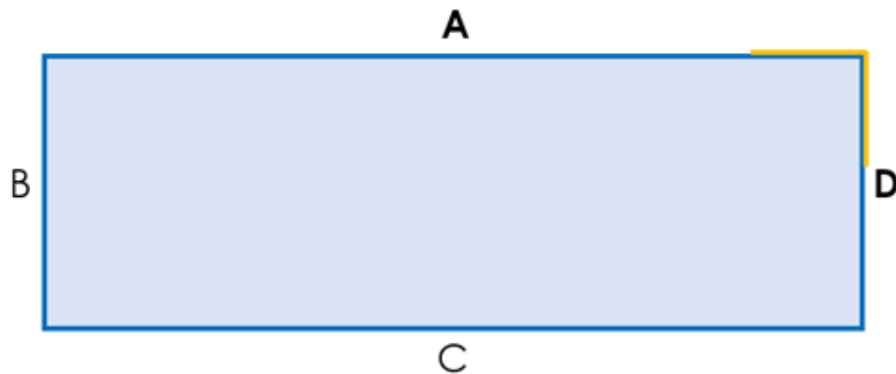
Which of these shapes has parallel lines?

Can you name any others?

Only the **hexagon** has parallel lines. Look at the shape. How many parallel lines does it have and where are they?
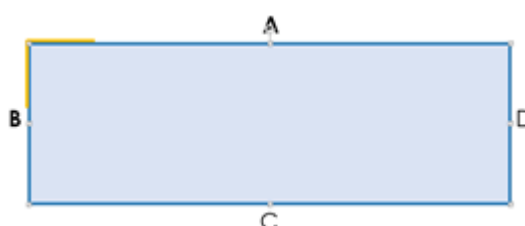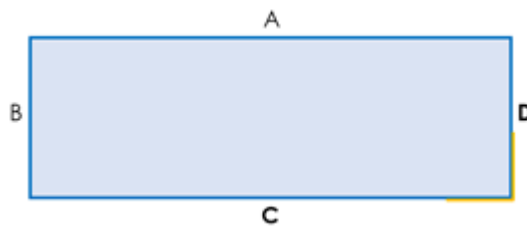
- Did you spot that there are only **2** parallel lines in the hexagon?
- The top and bottom horizontal lines are opposite each other and will never meet.

Perpendicular Lines

Perpendicular lines cross each other at right angles.

A

B

D

C

- **Line A** is *perpendicular* to **Line D**
- Can you spot the other perpendicular lines in this rectangle?

A

B
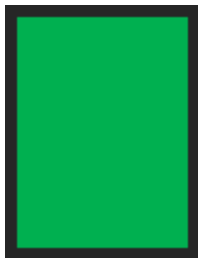
D

C

A

B

D

C

- **Line C** is *perpendicular* to **Line D**
- **Line A** is *perpendicular* to **Line B**

Let's Practise

Look at the square and the rectangle below, think about angles and length and describe their properties:

- Where can you see the parallel lines?
- How many right angles do they have?
- Which sides are equal in length?

Now go to the worksheet for today's tasks and pick your challenge!