



LO: I can identify right angles.

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LORIC task

- Look at the words provided.
- Select the shape that you think is the odd one out.
- Explain why to a partner. Share and discuss ideas.



Which is the odd one out?

square

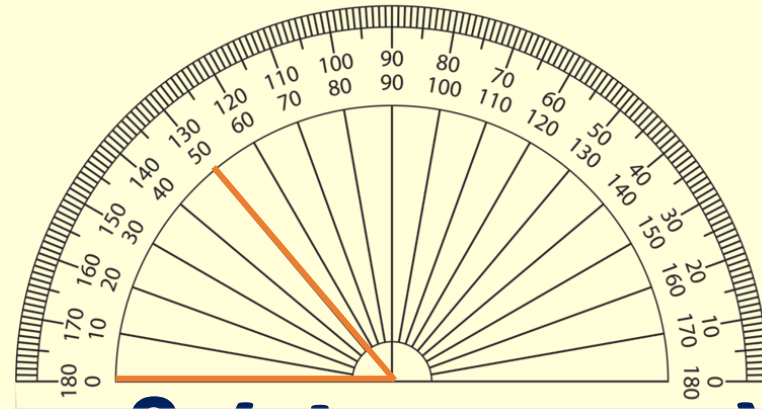
pentagon

cuboid

Use your Charlie Communication skills to explain your reason.

Background knowledge

What is a
protractor?



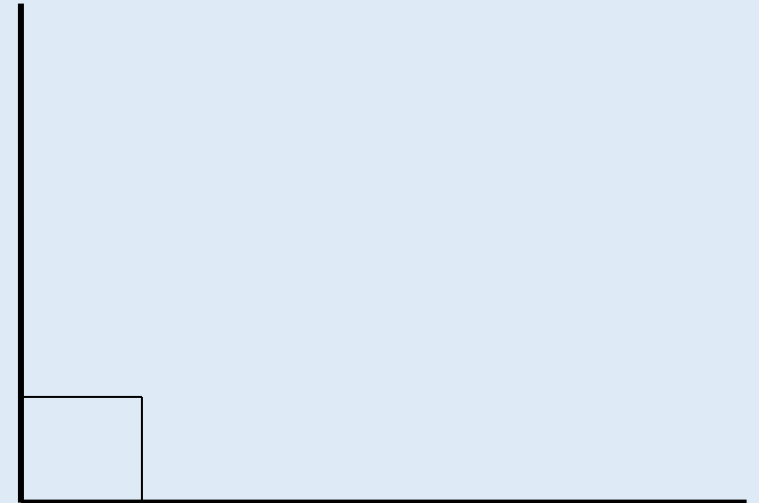
50° (degrees).

A protractor is a measuring instrument for measuring angles of a shape or when two lines meet.

Teach

To identify **right angles**, it is important to understand key vocabulary.

A **right angle** is an angle of exactly **90° (degrees)**, corresponding to a quarter turn. A square is quite often drawn to show the **right angle**.

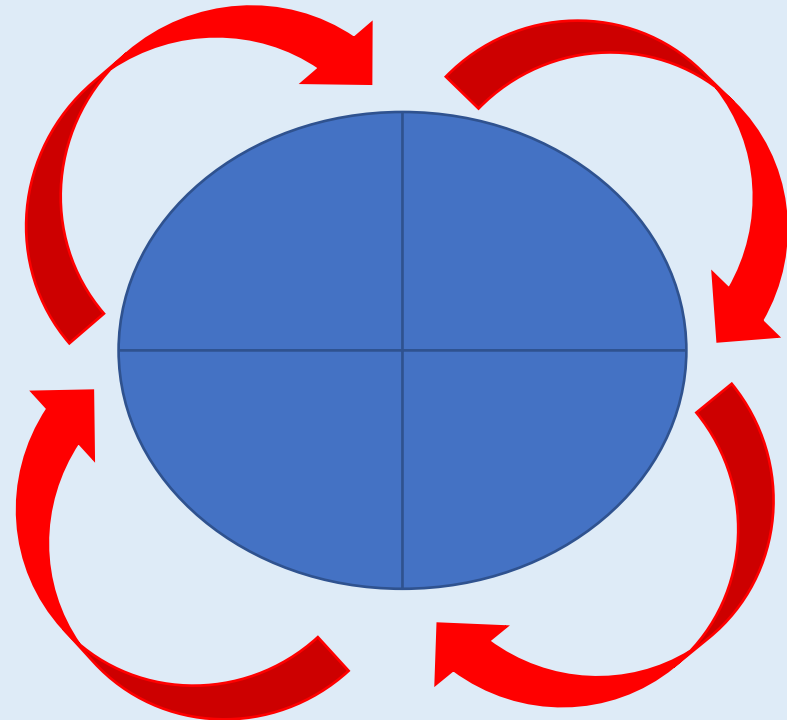


Teach

To identify **right angles**, it is important to understand key vocabulary.

By drawing a **horizontal** and **vertical line** through the centre of the circle, 4 **right angles** are created.

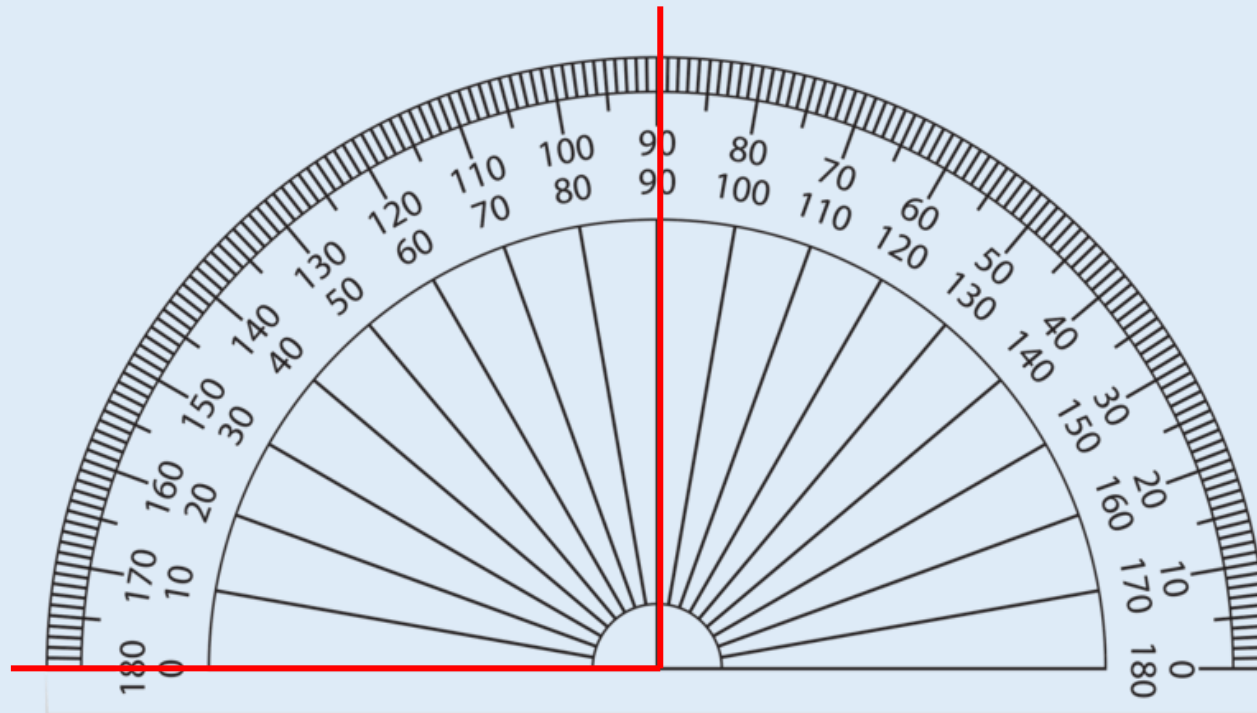
Each one is a quarter turn (as shown by the arrows).



Teach

A **right angle** is an angle of exactly **90° (degrees)**.

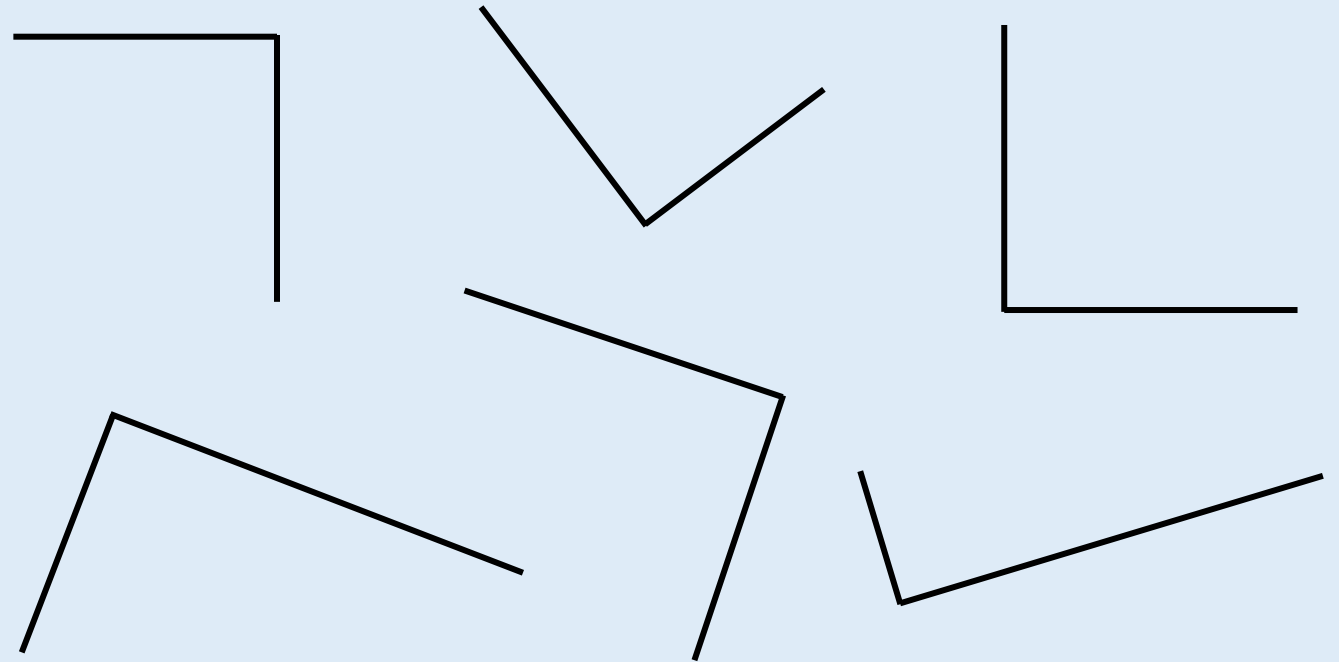
A protractor can be used to check that an angle is **90°** .



Teach

A **right angle** is an angle of exactly **90° (degrees)**, corresponding to a quarter turn.

A right angle is shaped like an 'L'.
A square is quite often drawn to show the **right angle**.

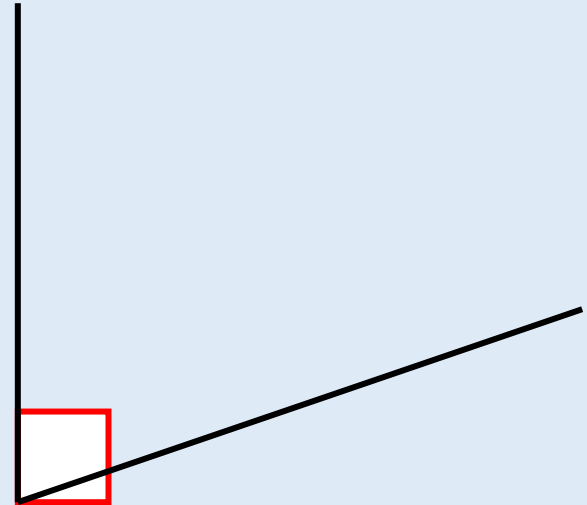


Teach

A **right angle** is an angle of exactly 90° (degrees).

A right angle is shaped like an 'L'.
A square is quite often drawn to
show the **right angle**.

This angle is not a **right angle** as
it is **smaller** than a **right angle**.

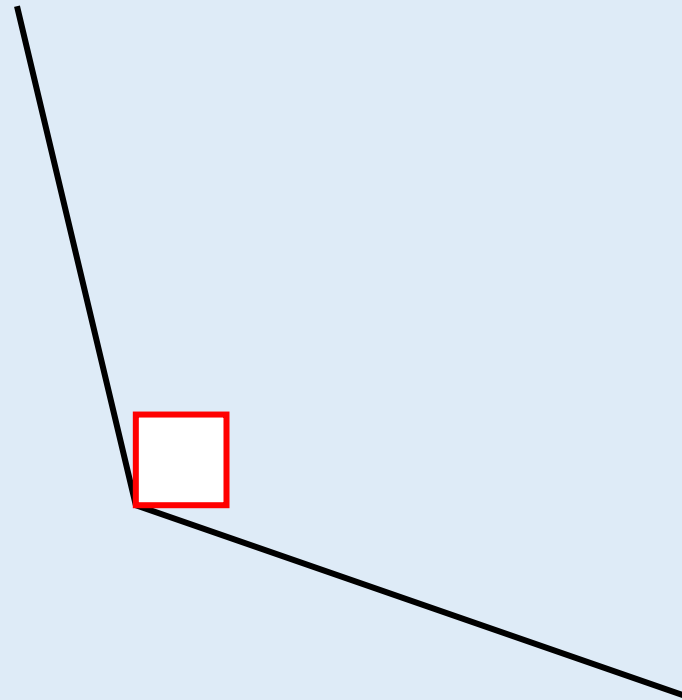


Teach

A **right angle** is an angle of exactly 90° (degrees).

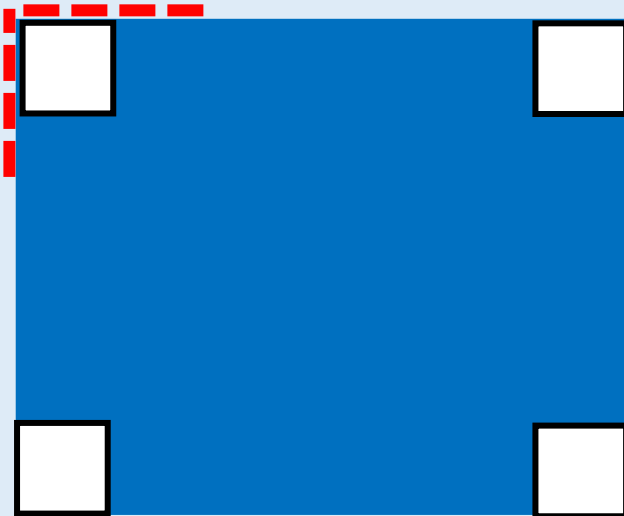
A right angle is shaped like an 'L'.
A square is quite often drawn to
show the **right angle**.

This angle is not a **right angle** as
it is **larger** than a **right angle**.



Model

A **right angle** is an angle of exactly **90°** (degrees).

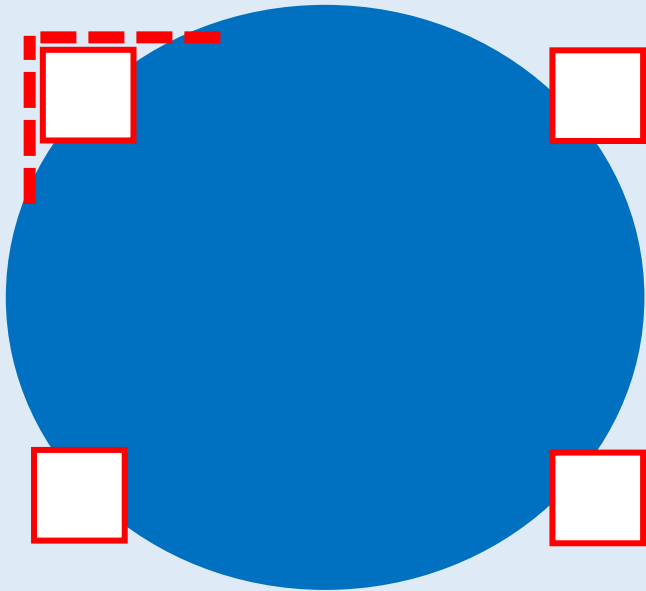


A square has four **right angles**.

Each corner is a **90°** angle. I can test this by using my idea of the 'L' shape.

Model

A **right angle** is an angle of exactly 90° (degrees).

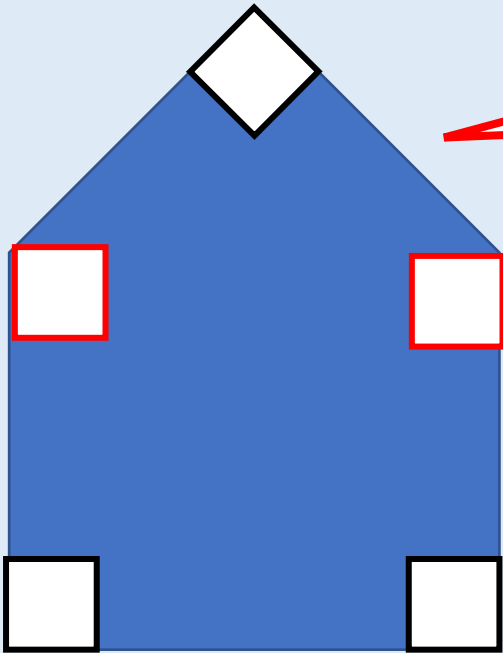


A circle has no right angles.

There are no vertices and no 90° angles.

Model

A **right angle** is an angle of exactly 90° (degrees).

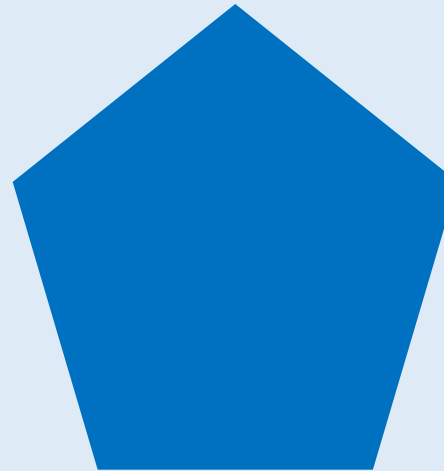
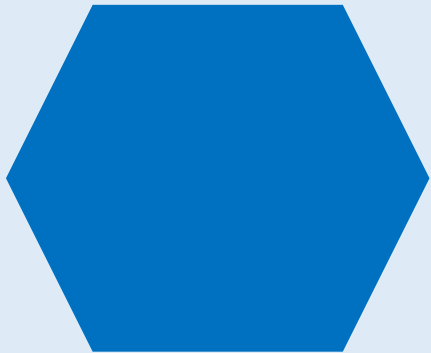


This pentagon has **3 right angles** as there are 3 vertices with 90° angles.

There are two vertices where the angle is larger than 90° (these are marked in **red**).

Apply

Identify the **2-D shapes** which have at least one **90° right angle**.



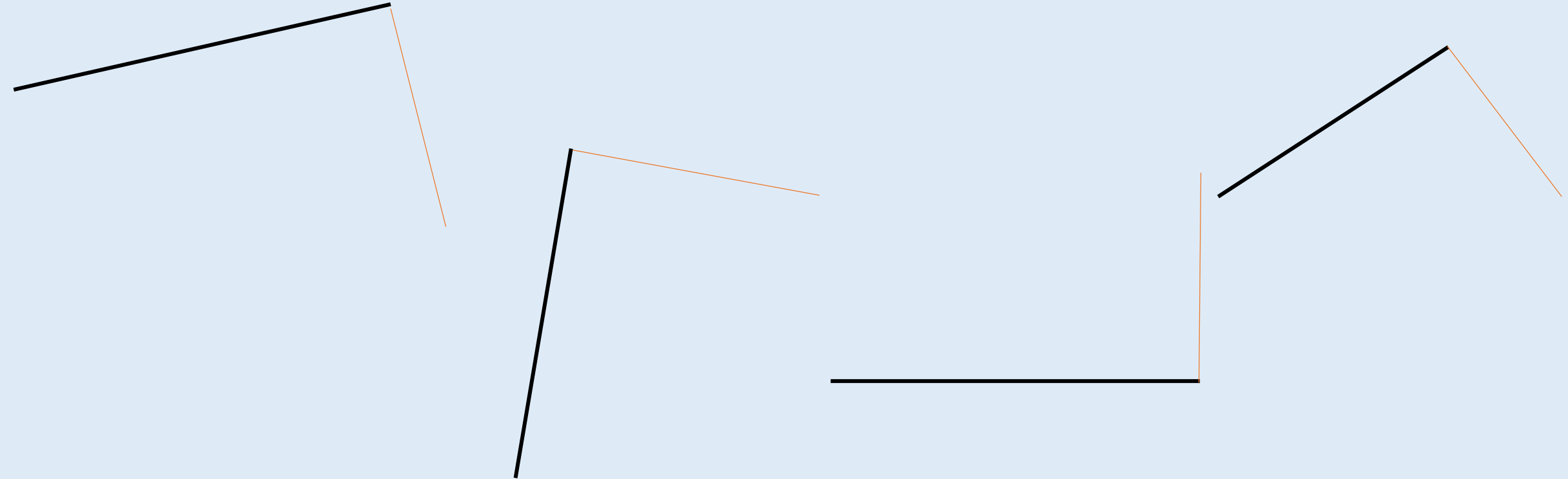
Apply

Henry has drawn a **2-D shape** with at least one **right angle**.
Draw your own **2-D shape** with at least one **right angle**.
Label the **right angle**.



Apply

For each line, draw another line to create a right angle. Mark the right angle.



Apply – Problem Solving

Tick whether each statement is true (T) or false (F).

	T	F
All 4-sided shapes have 4 right angles.		
A regular octagon has no right angles.		
A 5-sided shape cannot have a right angle.		

Apply – Reasoning

Harry draws a range of **2-D shapes** that he says do not have a **right angle**.
Is he correct? Explain how you know.

