

Properties of rectangles

Use the properties of rectangles to find missing lengths and angles



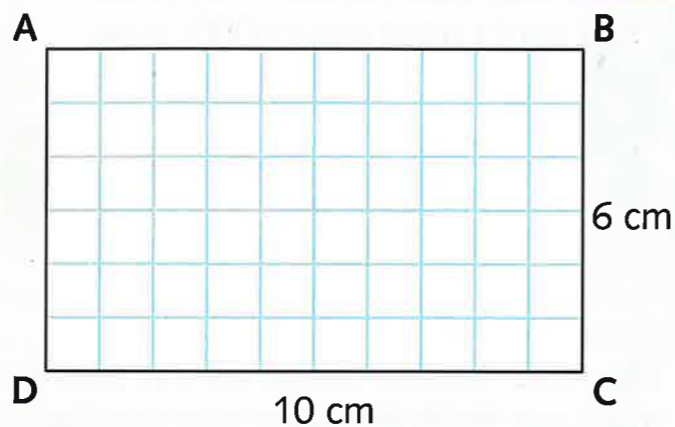
- 1** Copy rectangle ABCD onto 1 cm squared paper. Mark the equal sides and all the equal angles.

You will need:

- 1 cm squared paper
- ruler

- 2** Copy and complete.

- a** Side AB and side DC are both 10 cm long.
- b** Rectangle ABCD has right angles.

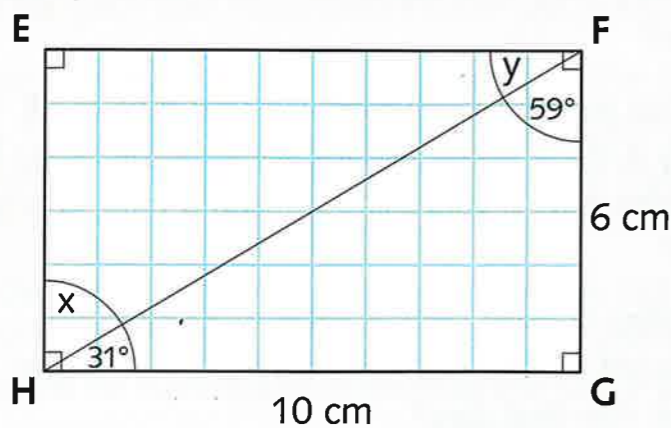


- 1** Copy rectangle EFGH onto 1 cm squared paper.

- a** Mark the equal sides and all the equal angles.
- b** Rule a line to join F to H, as shown below.
- c** Mark angle FHG = 31° and angle HFG = 59° .
- d** Calculate and fill in the sizes of the angles marked x and y.

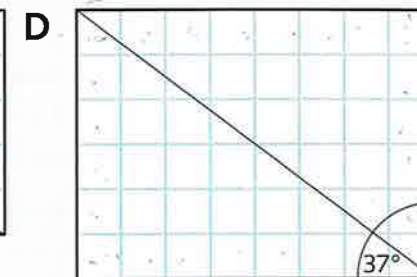
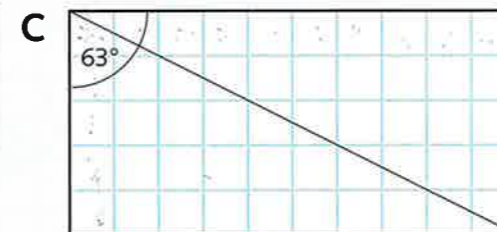
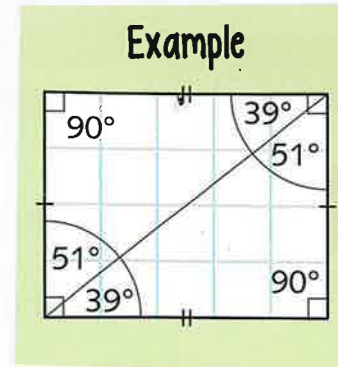
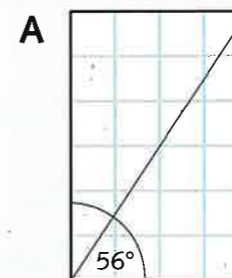
You will need:

- 1 cm squared paper
- ruler



- 2** Copy each rectangle onto 1 cm squared paper.

- a** Without measuring, complete each rectangle filling in the sizes of all the angles.
- b** Mark the equal sides.



Challenge 3

Each of the two diagrams below show two sides of a rectangle.

- a** Copy each of the two diagrams onto 1 cm squared paper.
- b** Work out the position of the vertices H and S and complete the rectangles EFGH and PQRS.
- c** Measure the lengths of the sides of each rectangle to the nearest millimetre. Write these on the diagrams and mark the angles.

You will need:

- 1 cm squared paper
- ruler
- protractor

