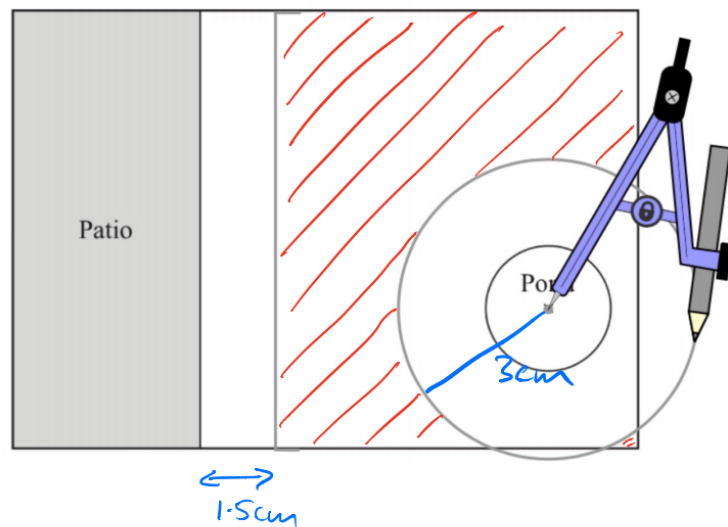# GCSE AQA Maths 8300

Properties & Constructions

Answer

"We will help you to achieve A Star "

Answer 1

The diagram shows a garden in the shape of a rectangle.

The scale of the diagram is 1 cm represents 2 m.

Scale: 1 cm represents 2 m

Irfan is going to plant a tree in the garden.
The tree must be

                more than 3 metres from the patio   ⟶ 1.5cm

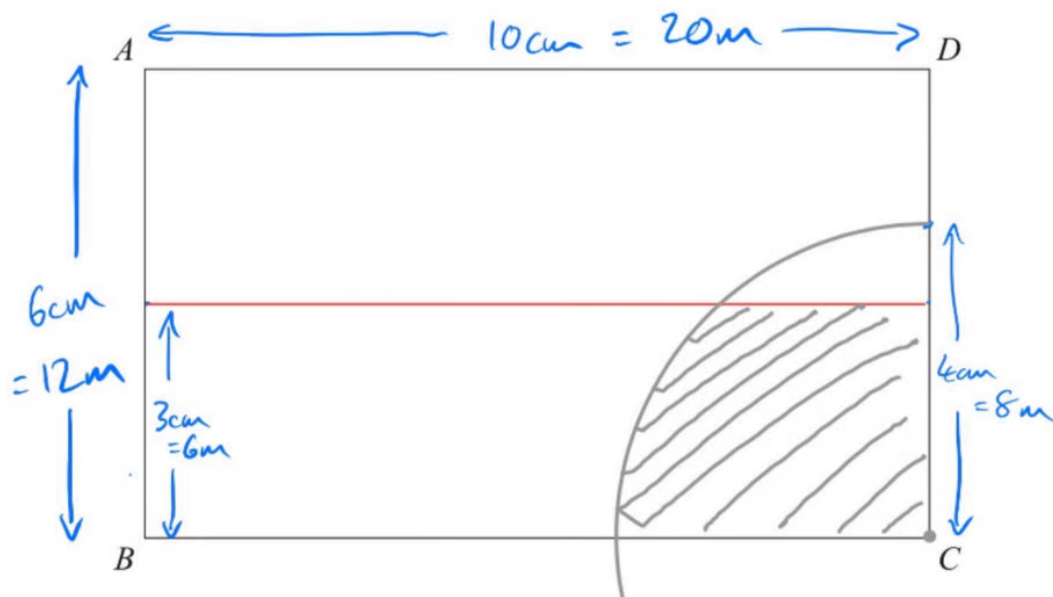**and**   more than 6 metres from the centre of the pond. ⟶ 3cm

On the diagram, shade the region where Irfan can plant the tree.

NB I MAY HAVE USED A SLIGHTLY DIFFERENT SIZE OF DIAGRAM SO MY SCALE MAY BE OUT...

Answer 2

Here is a scale drawing of an office.
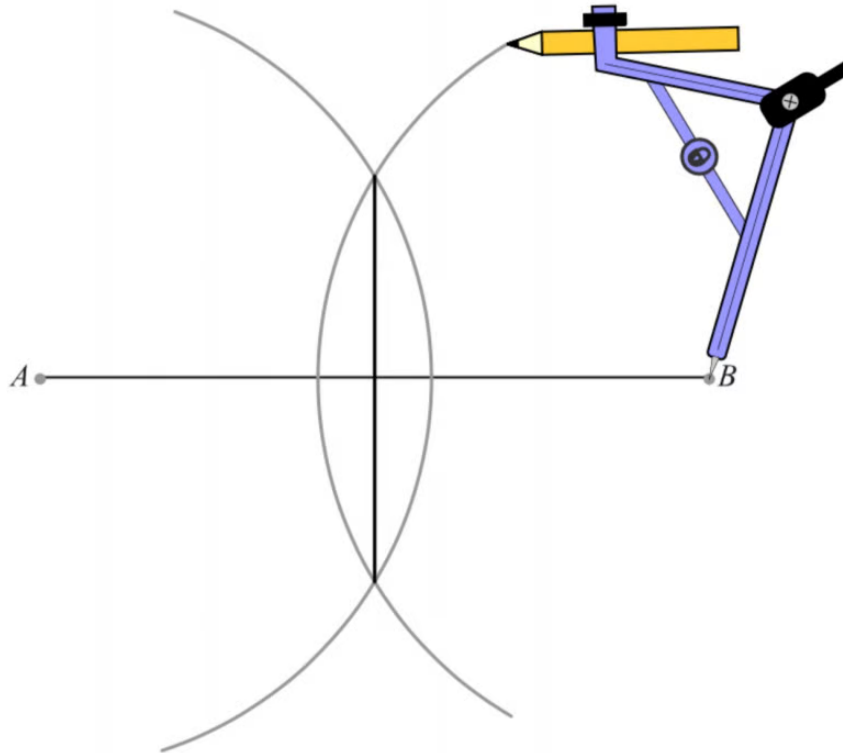
The scale is 1 cm to 2 metres.

A photocopier is going to be put in the office.
The photocopier has to be closer to *B* than it is to *A*.
The photocopier also has to be less than 8 metres from *C*.

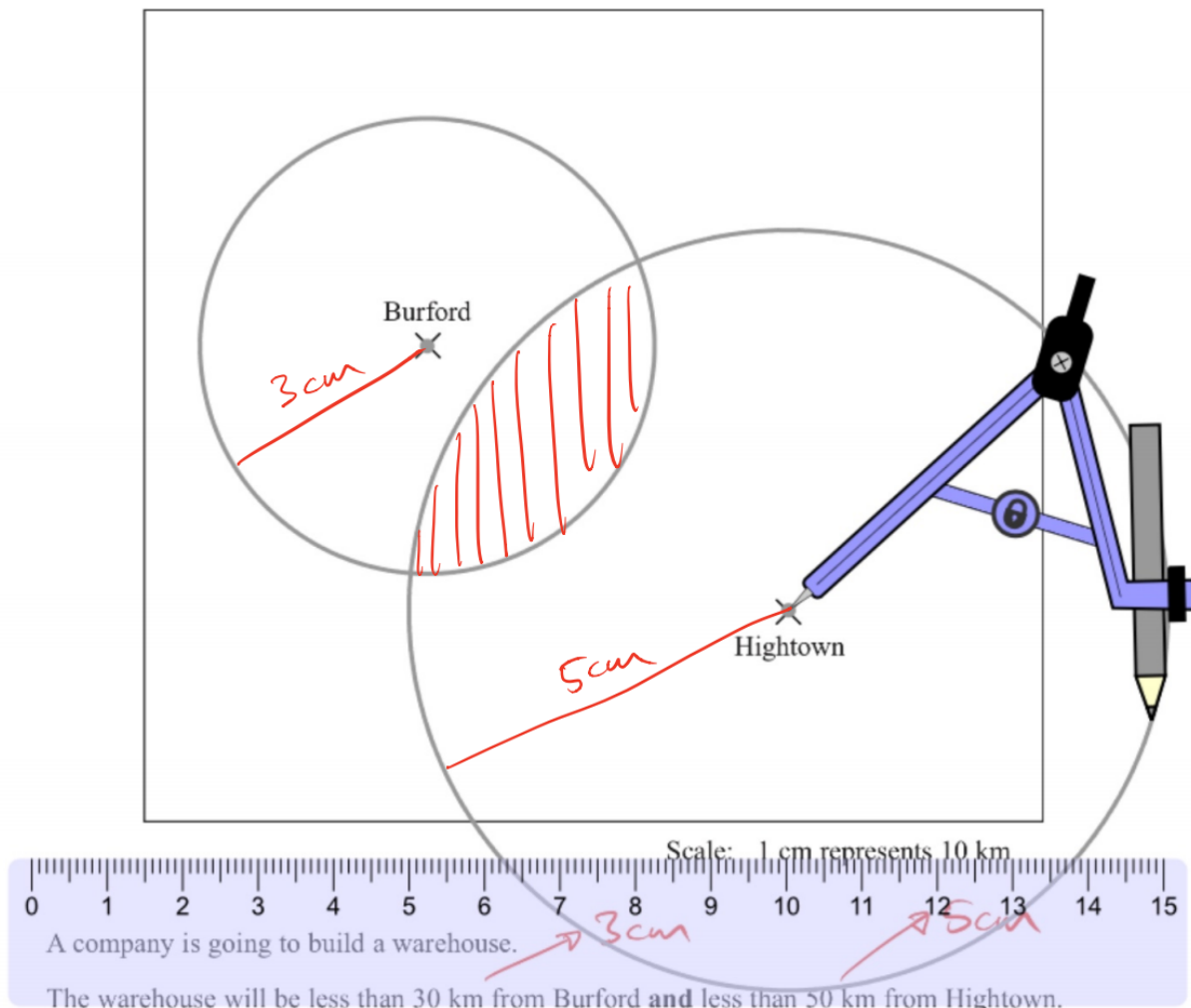Show, by shading, the region where the photocopier can be put.

Answer 3

Use ruler and compasses to **construct** the perpendicular bisector of the line segment *AB*.
You must show all your construction lines.

Answer 4

Here is a map.
The map shows two towns, Burford and Hightown.

Burford

3 cm

Hightown

5 cm

Scale: 1 cm represents 10 km

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

3 cm   5 cm

A company is going to build a warehouse.

The warehouse will be less than 30 km from Burford **and** less than 50 km from Hightown.

Shade the region on the map where the company can build the warehouse.

NB MY DIAGRAM MIGHT BE A SLIGHTLY
DIFFERENT SIZE TO YOURS SO THE
SCALE MIGHT BE A BIT OUT...

[3 marks]