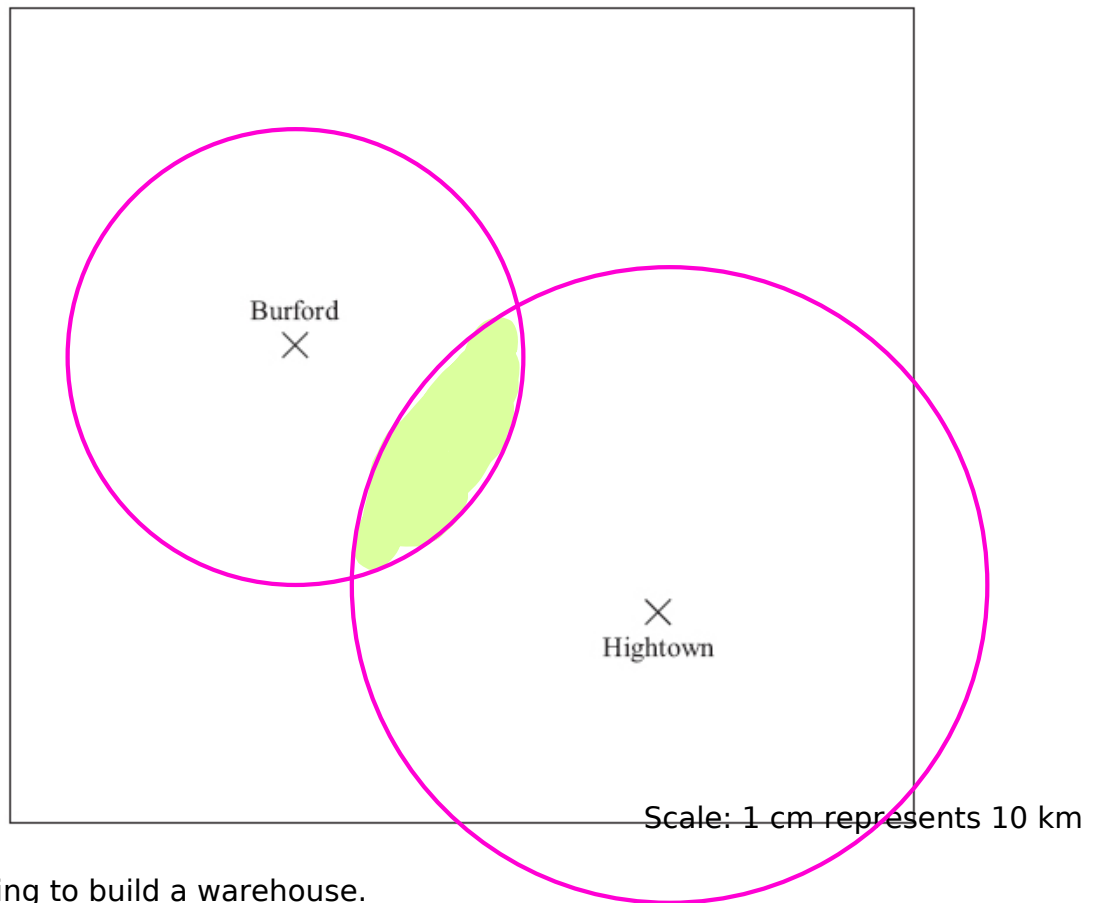


Questions

Q1.

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



A company is going to build a warehouse.

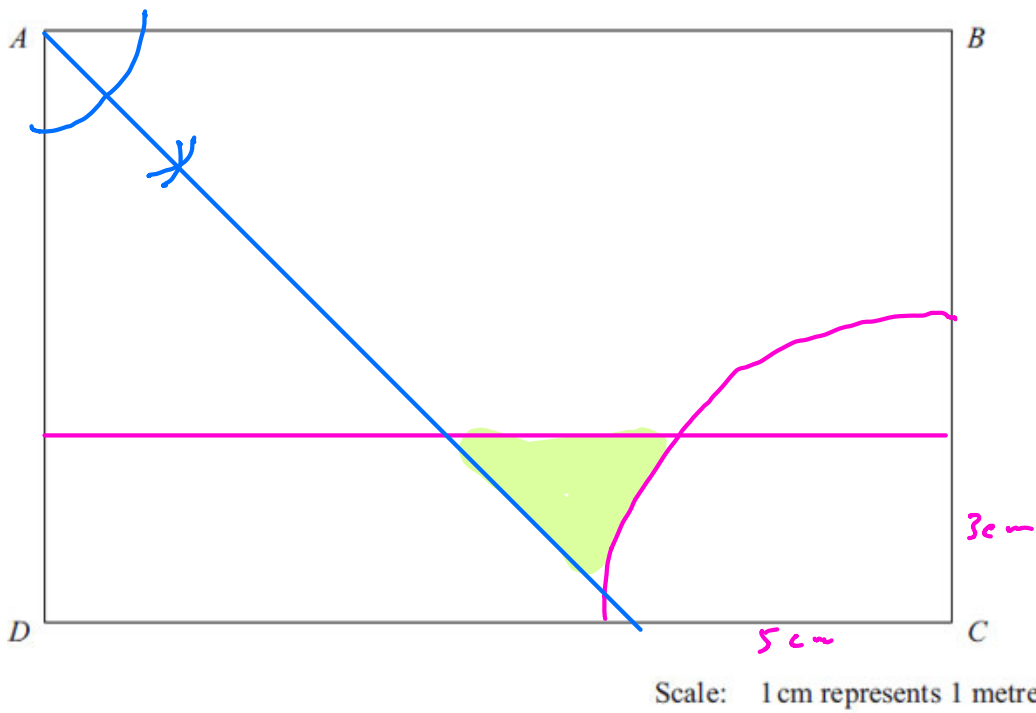
The warehouse will be less than 30 km from Burford **and** less than 50 km from Hightown.

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

(Total for Question is 3 marks)

Q2.

Here is a scale drawing of a rectangular garden *ABCD*.



Jane wants to plant a tree in the garden

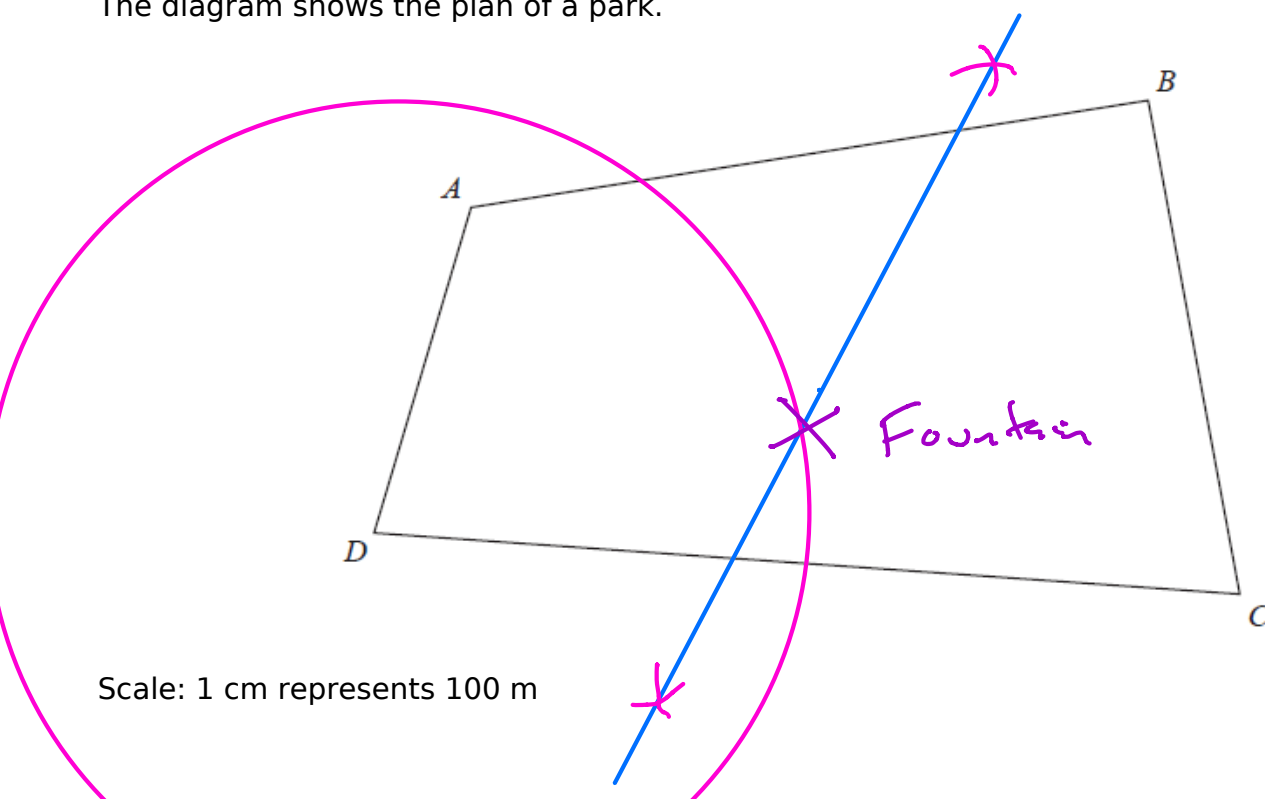
at least 5m from point C,
 nearer to AB than to AD
 and less than 3m from DC.

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

(Total for Question is 4 marks)

Q3.

The diagram shows the plan of a park.



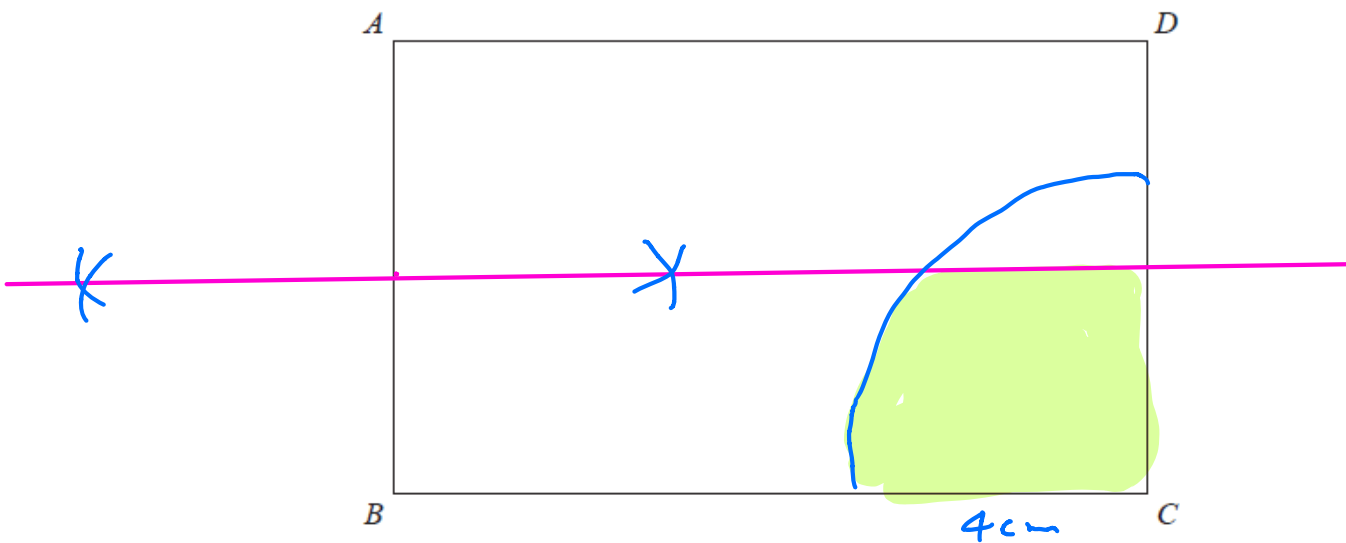
A fountain in the park is equidistant from A and from C . The fountain is exactly 700 m from D .

On the diagram, mark the position of the fountain with a cross (\times).

(Total for question = 3 marks)

Q4.

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.

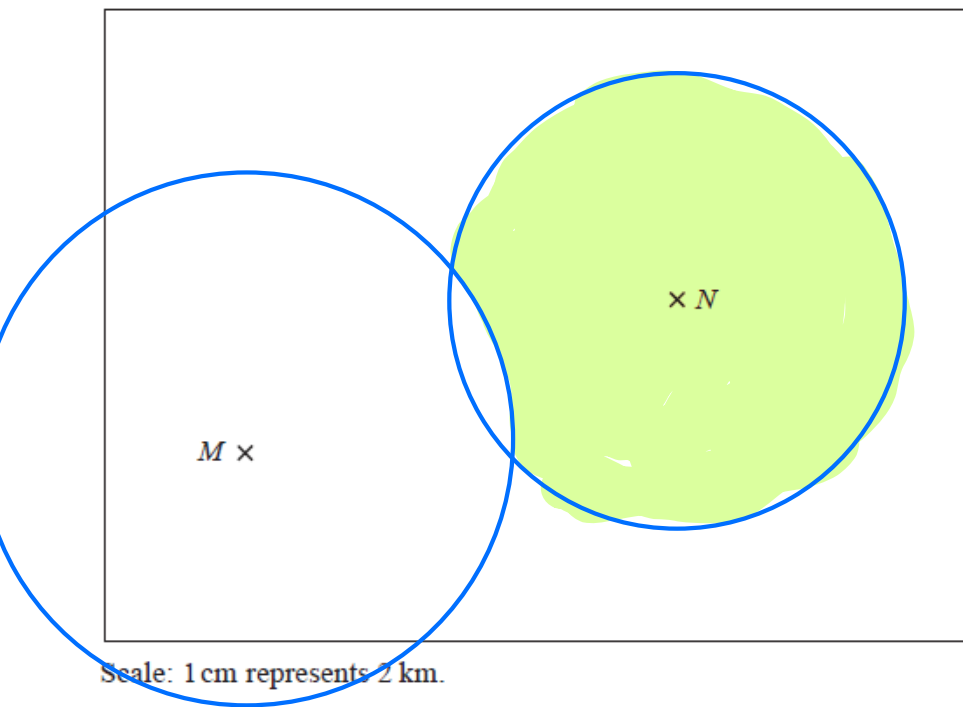
(Total for question = 3 marks)

Q5.

Here is a map.
The map shows two towns Marlford (M) and Newborough (N).

A company is going to build a supermarket.
The supermarket will be more than 10 km from Marlford and less than 6 km from Newborough.

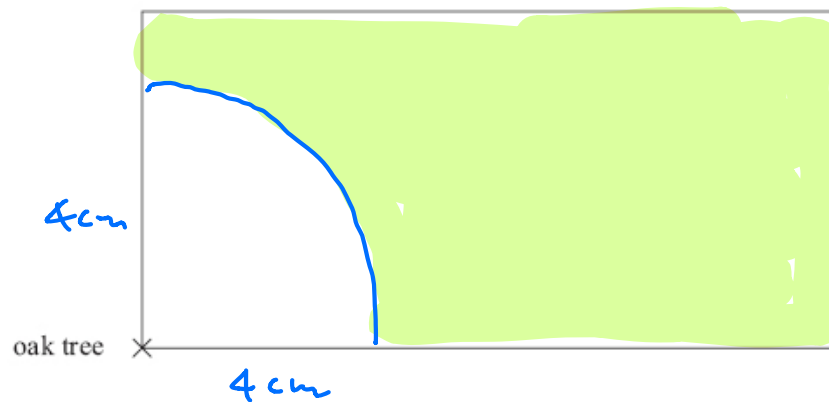
Find and shade the region on the map where the company can build the supermarket.



(Total for question = 3 marks)

Q6.

Here is a scale drawing of Gilda's garden.



Scale: 1 cm represents 1 m

Gilda is going to plant an elm tree in the garden.

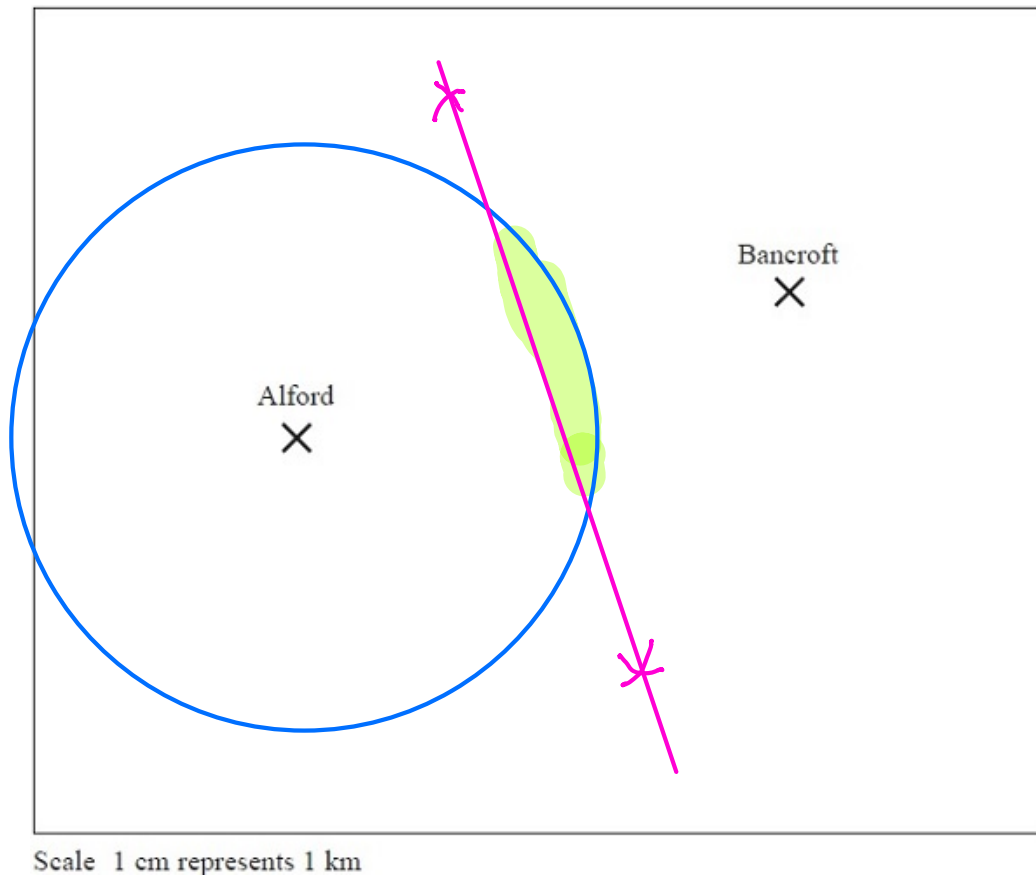
She must plant the elm tree at least 4 metres from the oak tree.

On the diagram, show by shading the region where Gilda can plant the elm tree.

(Total for Question is 2 marks)

Q7.

The map shows the positions of two schools, Alford and Bancroft.



A new school is going to be built.

The new school will be less than 5 kilometres from Alford.

It will be nearer to Bancroft than to Alford.

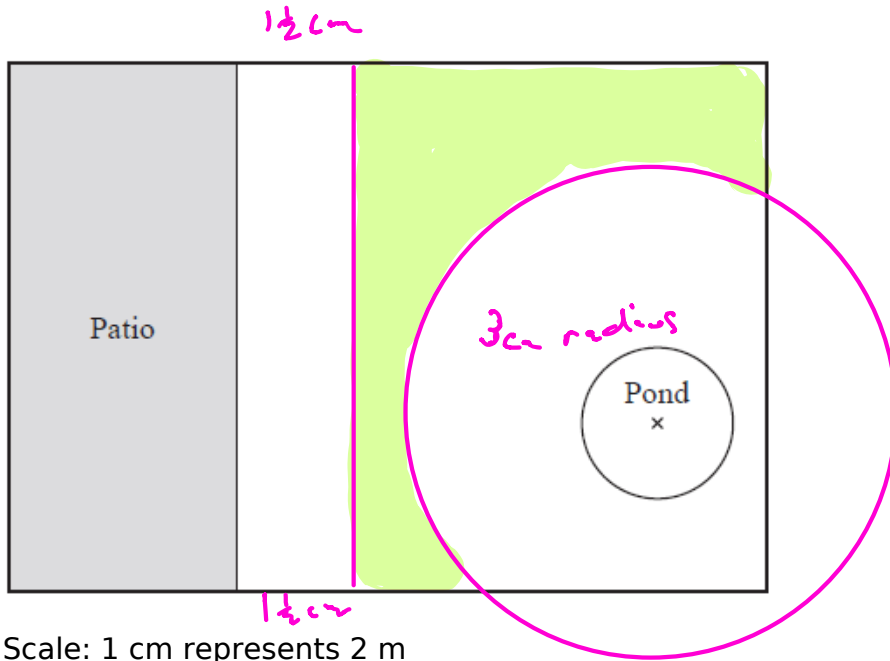
Shade the region on the map where the new school can be built.

(Total for Question is 3 marks)

Q8.

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

and more than 6 metres from the centre of the pond.

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

(Total for Question is 3 marks)

Q9.

The diagram shows a scale drawing of a garden.



Scale: 1 centimetre represents 2 metres

Haavi is going to plant a tree in the garden.

The tree must be

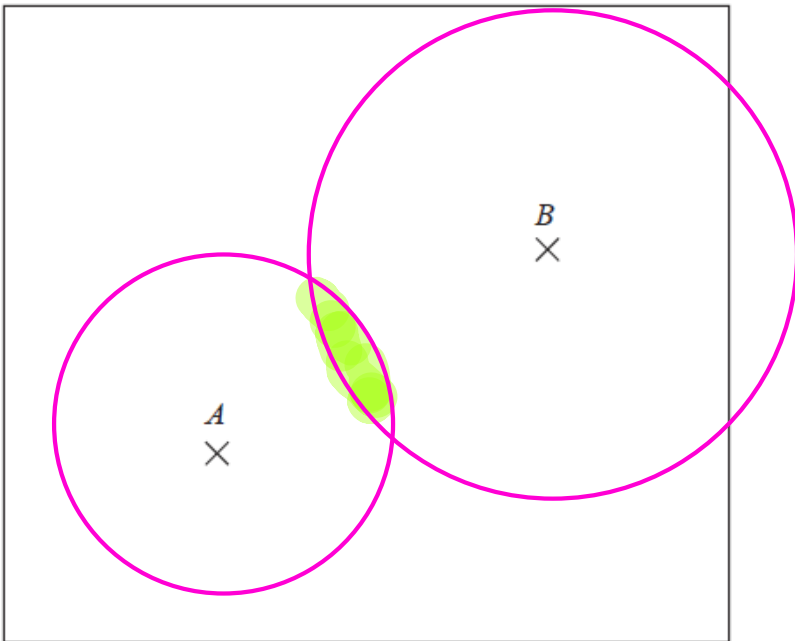
less than 7 metres from the fountain,
less than 12 metres from the bench.

On the diagram show, by shading, the region in which Haavi can plant the tree.

(Total for question = 3 marks)

Q10.

The diagram shows the positions of two shops, *A* and *B*, on a map.



The scale of the map is 1 cm represents 5 km.

Yannis wants to build a warehouse.

The warehouse needs to be

less than 10 km from A,
less than 20 km from B.

Show by shading where Yannis can build the warehouse.

(Total for Question is 3 marks)