SCALE DRAWINGS

Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

1.

9

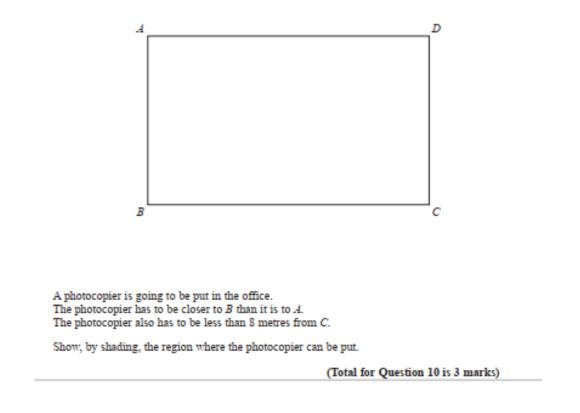
A ______B

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

(Total for Question 9 is 2 marks)

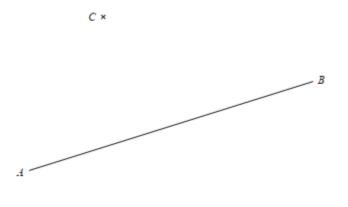
Pearson Edexcel - Monday 8 June 2015 - Paper 2 (Calculator) Higher Tier

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



Pearson Edexcel - Wednesday 5 November 2014 - Paper 1 (Non-Calculator) Higher Tier

10 Use ruler and compasses to construct the perpendicular from point C to the line AB. You must show all your construction lines.

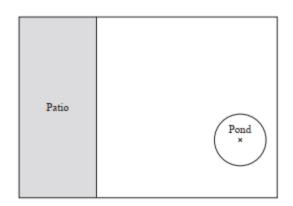


(Total for Question 10 is 2 marks)

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

8 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

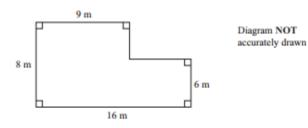
Irfan is going to plant a tree in the garden. The tree must be more than 3 metres from the patio and more than 6 metres from the centre of the pond.

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

(Total for Question 8 is 3 marks)

Pearson Edexcel - Wednesday 6 November 2013 - Paper 1 (Non-Calculator) Higher Tier

*10 The diagram shows the floor of a village hall.



The caretaker needs to polish the floor.

One tin of polish normally costs £19 One tin of polish covers 12 m² of floor.

There is a discount of 30% off the cost of the polish.

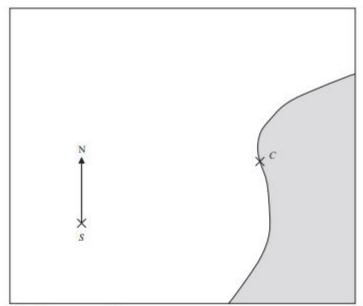
The caretaker has £130

Has the caretaker got enough money to buy the polish for the floor? You must show all your working.

(Total for Question 10 is 5 marks)

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

*13 Here is a map. The position of a ship, *S*, is marked on the map.



Scale 1 cm represents 100 m

Point C is on the coast. Ships must not sail closer than 500 m to point C.

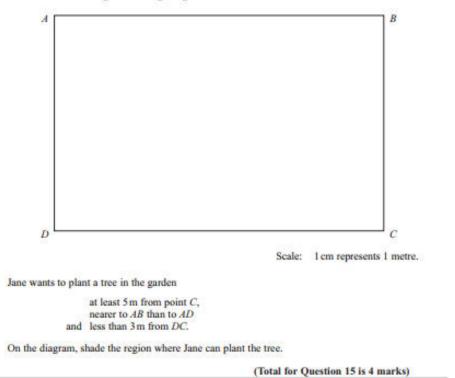
The ship sails on a bearing of 037°

Will the ship sail closer than 500 m to point C? You must explain your answer.

(Total for Question 13 is 3 marks)

Pearson Edexcel - Thursday 28 February 2013 - Paper 1 (Non-Calculator) Higher Tier

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



Pearson Edexcel - Tuesday 6 November 2012 - Paper 1 (Non-Calculator) Higher Tier

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



Scale: 1 cm represents 10 km

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 10 is 3 marks)

OCR GSCE - Tuesday 5 November 2019 - Paper 6 (Calculator) Higher Tier

 (a) A transport lorry consists of a cab and a trailer. The trailer has a volume of 90 m³. Alfie makes a model of this lorry using a scale of 1 : 72.

Work out the volume of the trailer in Alfie's model, giving your answer in cm³.

(a) cm³ [3]

(b) Alfie paints his model lorry. He has eight colours available.

He decides to paint the cab in one colour and the trailer in a different colour.

He then wants to paint his name on the trailer. The name must be in a different colour to the trailer.

In how many different ways can Alfie paint his model lorry?

(b)[3]

OCR GSCE – Thursday 7 November 2019 – Paper 5 (Non-Calculator) Higher Tier

10.

9 (a) The scale 1 cm represents 25 m can be written in the form 1 : k.

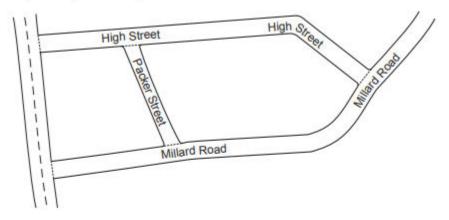
Find the value of k.

A boat leaves the harbour from point C and sails on a path that is equidistant from BC and CD. The harbour rules do not allow boats to sail within 75 m of point E.

[5]

Find by construction whether the path of the boat will follow the harbour rules. Show all your construction lines.

OCR GSCE – Monday 12 November 2018 – Paper 6 (Calculator) Higher Tier 11. 5 This map shows part of a village.



Neil knows that Packer Street is 180 m long in real life.

(a) Neil measures the map.

He says

Packer Street is 3.5 cm long. High Street is 11.2 cm long.

Therefore, I calculate that High Street is 576 m long in real life.

Use Neil's figures to show that the answer to his calculation is correct.

[3]

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(b) Jodie measures the same map.

She says

I think Packer Street is longer than Neil's measurement of 3.5 cm. Therefore, High Street must be longer than 576 m in real life.

Is Jodie's reasoning correct? Show how you decide.

......[2]

(c) On another map, Packer Street is 2.4 cm long.

Express the scale of this map in the form 1 : n.

(c) 1:.....[2]

OCR GSCE – Thursday 24 May 2018 – Paper 4 (Calculator) Higher Tier

12.

5 The scale diagram below shows two cities, P and Q.

	Scale: 1 cm represents 125 km
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A plane departs from P at 09 47 and arrives at Q at 12 07.

(a) Work out the average speed, in kilometres per hour, of the plane.

	(a) km/h [5]
(b)	Give one reason why your answer may be inaccurate.
	[1]

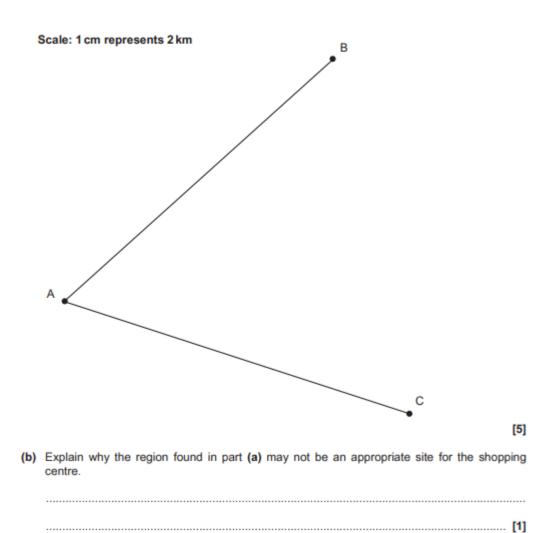
OCR GSCE - Thursday 24 May 2018 - Paper 4 (Calculator) Higher Tier

13.

7 The scale diagram below shows towns, A, B and C. Line AB represents the road from A to B and line AC represents the road from A to C.

A shopping centre is to be built so that it is

- nearer to the road from A to B than the road from A to C,
- less than 14 km from town C.
- (a) Using construction, shade the region where the shopping centre could be built. Show all your construction lines.



OCR GSCE – Tuesday 13 June 2017 – Paper 6 (Calculator) Higher Tier

14.

- 2 (a) The scale of a map is 1 cm represents 25 m.
 - (i) The length of a path is 240m.

Work out the length, in centimetres, of the path on the map.

(ii) The scale 1 cm represents 25 m can be written in the form 1:k. Find the value of k. (ii) *k* =[1] (b) The scale drawing represents a park. Scale: 1 cm represents 25 m С В A A new play area must be no more than 150 m from B

closer to AD than to CD.

Construct and shade the region where the play area can be positioned. Show all your construction lines.

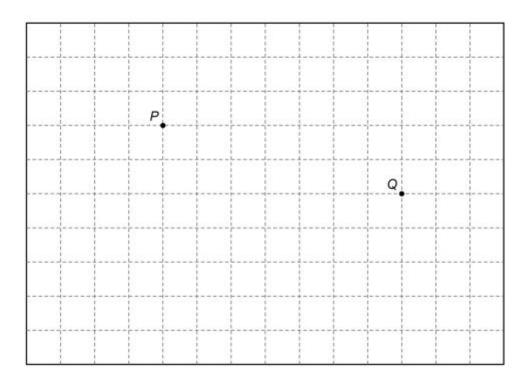
AQA GSCE – Thursday 7 June 2018 – Paper 2 (Calculator) Higher Tier

15.

14 The scale drawing represents a garden.

Water from a sprinkler at P reaches up to 20 metres from P. Water from a sprinkler at Q reaches up to 25 metres from Q.

Scale: 1 cm represents 5 m



Using a pair of compasses,

show the region that water from both sprinklers reaches.

[2 marks]