Write your name here		
Surname	Other nan	nes
In the style of:	Centre Number	Candidate Number
Edexcel GCSE		
Mathema	1: _	
wamema	ITICS A	
Locus and C		ns
_		ns Higher Tier
_	onstructio	Higher Tier Paper Reference
Locus and C	onstructio	Higher Tier

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** guestions.
- Answer the questions in the spaces provided
 there may be more space than you need.
- Calculators may be used.

Information

- The total mark for this paper is 100
- The marks for each question are shown in brackets
 use this as a quide as to how much time to spend on each question.
- Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶



1. (a) Draw the loc	cus of all points which are equidistant from the	points C and D .	
	$C \times$	$\times D$	
		·· <i>D</i>	
			(2)
			(2)
(b) Draw the lo	ocus of all points that are exactly 3cm from the	e line EF.	
. ,			
	E	F	
			(2)
		(Total 4 ma	rks)

2. Draw the locus of all points which are equidistant from the lines XY and XZ.



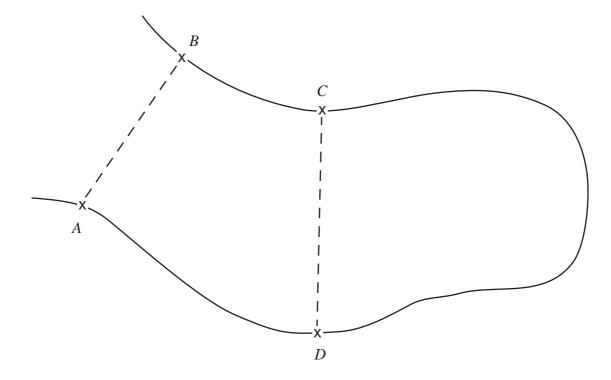
(Total 2 marks)



3. The map shows part of a golf course.

A golfer has to hit a ball so that its path between AB and CD is a straight line an is always the same distance from A as from B

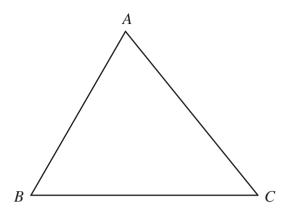
On the map, draw the path the ball should take.



(Total 2 marks)



4.



ABC is a triangle.

Shade the region inside the triangle which is **both**

less than 4 centimetres from the point B and closer to the line AC than the line AB.

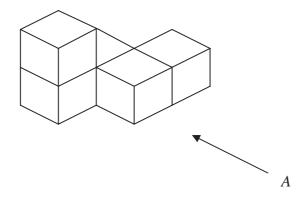
(Total 4 marks)



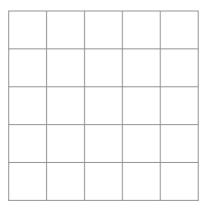
	two towns, Knutsford and M	nucciesticiu.	
	Knutsford		
	X		
		\	
		X Macclesfield	
		Scale: 1 cm represents 10	km
company is go	oing to build a glasshouse.		
The glasshouse	will be less than 30 km from	n Knutsford and less than 50 km from	
Macclesfield. Sh	nade the region on the map w	where the company can build the glassh	iouse.
		(Total for Question 10 is	3 marks)



6. The diagram represents a solid made from 5 identical cubes.



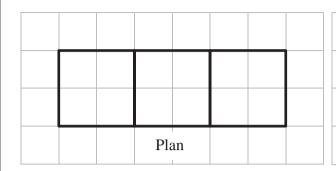
On the grid below, draw the view of the solid from direction A.

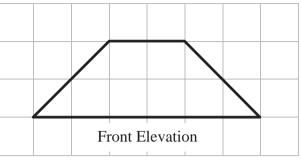


(Total 2 marks)



7. Here are the plan and front elevation of a solid shape.





(a) On the grid below, draw the side elevation of the solid shape.



(2)

(b) In the space below, draw a sketch of the solid shape.

(2)

(Total 4 marks)



You must show all you	ur construction lines.	
One side of the triangl	le has already been drawn for you.	
		_
		(T)
		(Total 2 marks)



9. Here is a sketch of a quadrilateral.

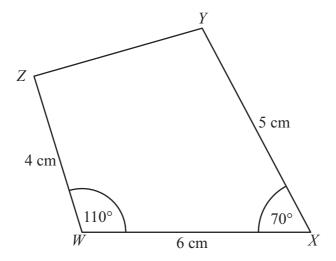


Diagram **NOT** accurately drawn

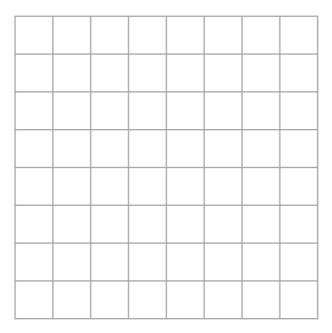
Make an accurate drawing of the quadrilateral WXYZ in the space below. The point W, marked with a cross (\times), has been drawn for you.

W \times

(Total 4 marks)

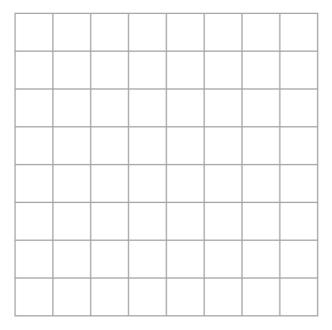


10. (a) On the grid, draw an isosceles triangle.



(1)

(b) On the grid, draw a rectangle with an area of $20\ cm^2$.



(2)

(Total 3 marks)

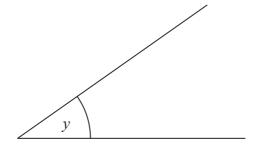


11.	(a) Measure the length of the line AB.
	Give your answer in centimetres.



(1)

(b) Measure the size of angle y.



(1)

(c) In the space below, draw accurately a circle of radius 4 cm. Use the point *C* as the centre of your circle.



(1)

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(Total 3 marks)



12. Use ruler and compasses to construct the perpendicular bisector of the line <i>Al</i>	3.
You must show all your construction lines.	
A ————————————————————————————————————	
(Tot:	al 2 marks)
(100	

(0)	Use ruler and compasses to construction You must show all your construction	et the perpendicul 1 lines.	ar bisector of	the line RS.
	R		-S	
				(2)
				(Total 4 marks)
				(Total 4 marks)

13. Use ruler and compasses to construct an angle of 30° at <i>T</i> . You must show all your construction lines.	
T	— (Total 3 marks)

