Name Class



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Loci and constructions

(9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

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 questions.
- •Answer the questions in the spaces provided
- there may be more space than you need.
- •Diagrams are NOT accurately drawn, unless otherwise indicated.
- ·You must show all your working out.
- •If the question is a **1F** question you are not allowed to use a calculator.
- •If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

Information

- •The marks for **each** question are shown in brackets
- use this as a guide as to how much time to spend on each question.

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.

Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.

16	A, B	and	C	are	three	points	on	a	map.	
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B

 $A \times$

×

1 cm represents 100 metres.

Point T is 250 metres from point A.

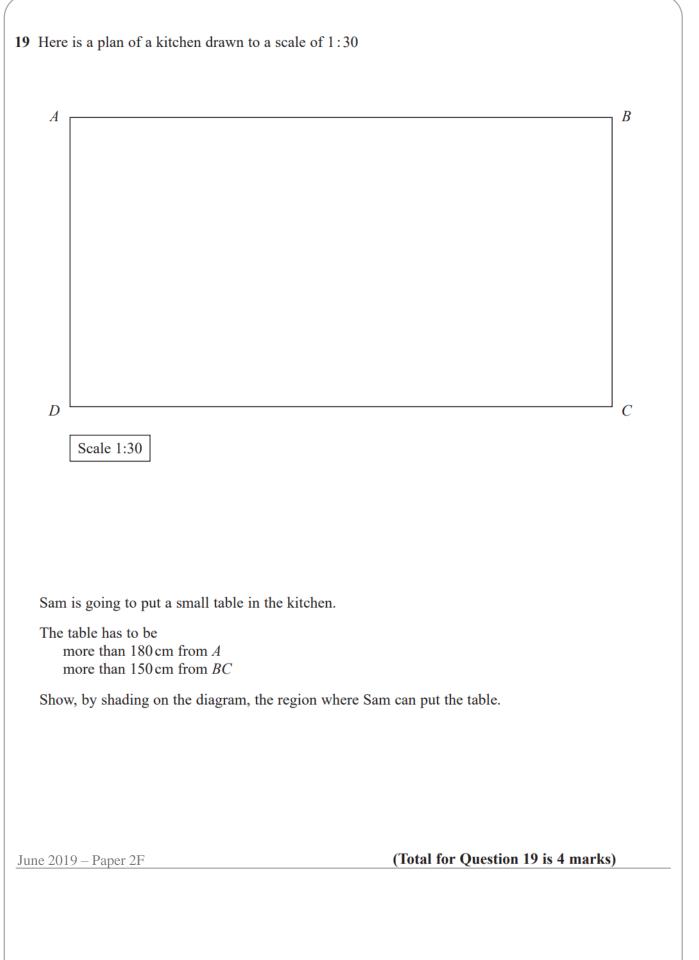
Point T is equidistant from point B and point C.

On the map, show one of the possible positions for point T.

June 2017 – Paper 2F

(Total for Question 16 is 3 marks)

17 Draw accurately an isosceles triangle with sides of length 8 cm, 6 cm and 6 cm. One side of the triangle has been drawn for you.							
	8 cm						
May 2020 – Paper 3F		(Total for Question 17 is 2 marks)					



23 Use a ruler and compasses to construct the line from the point <i>P</i> perpendicular to the line <i>CD</i> . You must show all construction lines.						
	$\times P$					
C	D					
<u> </u>	<i>D</i>					
November 2019 – Paper 1F	(Total for Question 23 is 2 marks)					