Image: Candidates answer on the Question Paper. Additional Materials: Electronic calculator Mathematical tables (optional)			trapap
CANDIDATE NAME CENTRE NUMBER CENTRE NUMBER CANDIDATE NUMBER CANDIDATE NUMBER 0581/31 Paper 3 (Core) 0581/31 Paper 3 (Core) 0581/31 Candidates answer on the Question Paper. Candidates answer on the Question Paper. Additional Materials: Electronic calculator Geometrical instruments		UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education	W abacambri
NUMBER NUMBER NUMBER MATHEMATICS 0581/31 Paper 3 (Core) May/June 2011 Candidates answer on the Question Paper. Additional Materials: Electronic calculator			
Paper 3 (Core) May/June 2011 2 hours Candidates answer on the Question Paper. Additional Materials: Electronic calculator Geometrical instruments			
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Additional Materials: Electronic calculator Geometrical instruments			2 hours
	Candidates and	swer on the Question Paper.	
	Additional Mate		

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen. You may use a pencil for any diagrams or graphs. Do not use staples, paper clips, highlighters, glue or correction fluid. DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

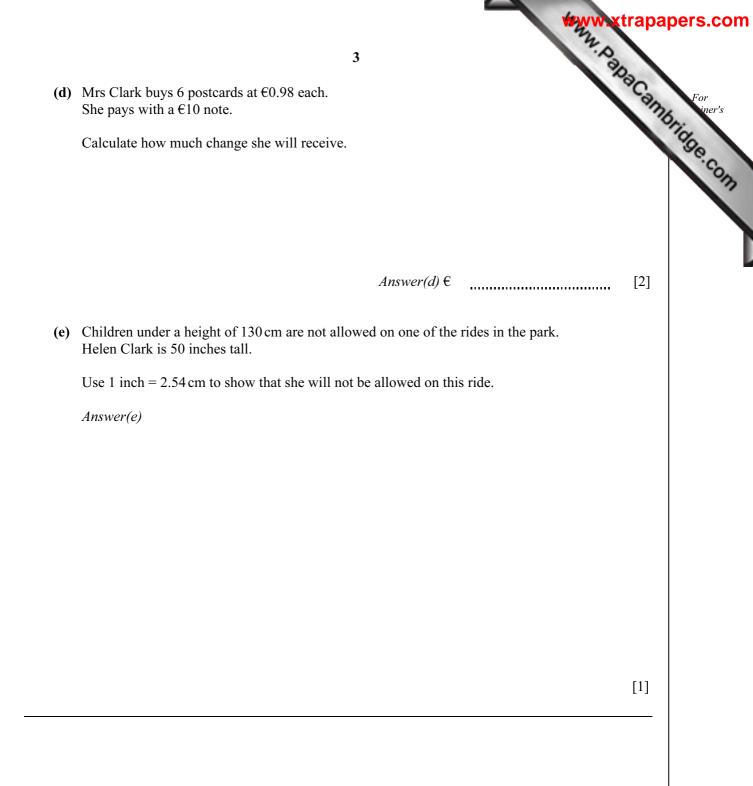
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

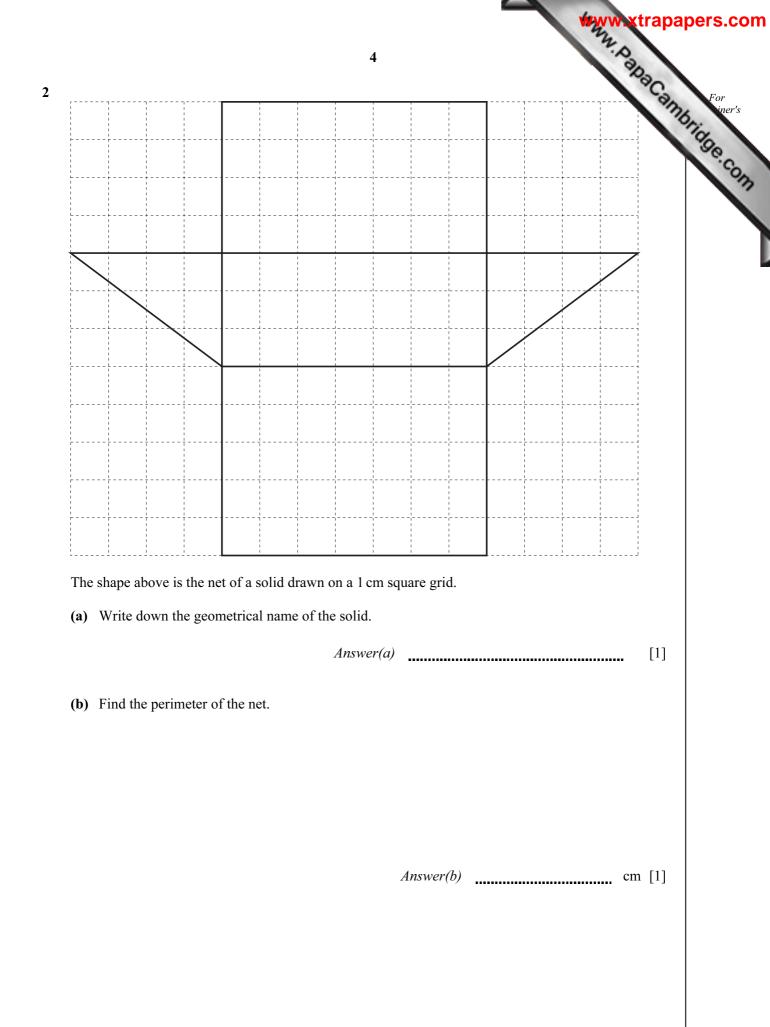
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 104.

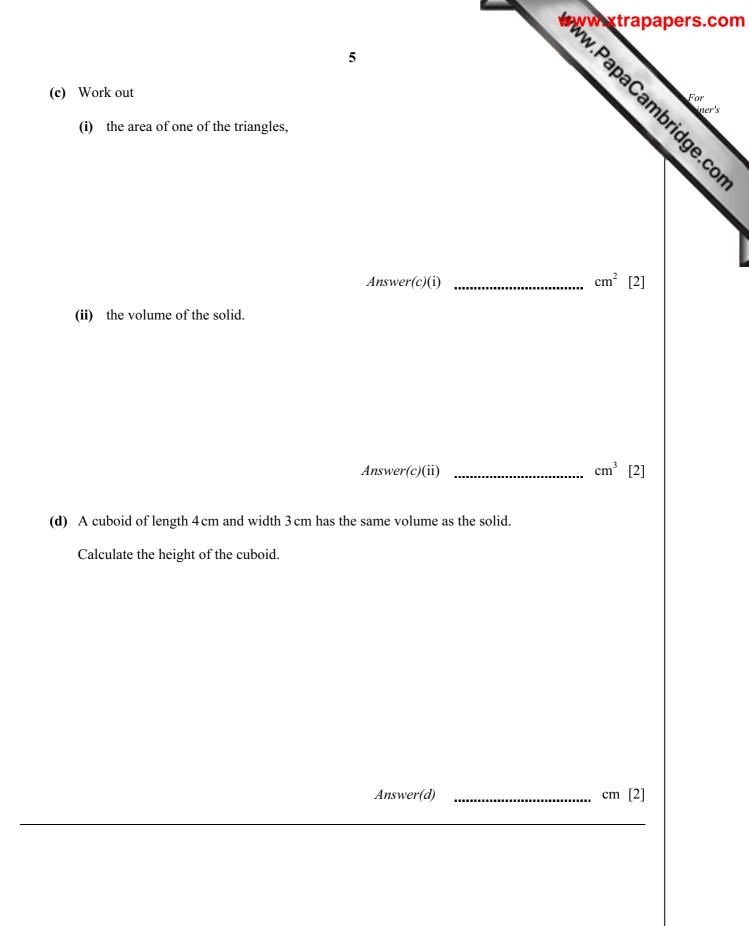
This document consists of 16 printed pages.

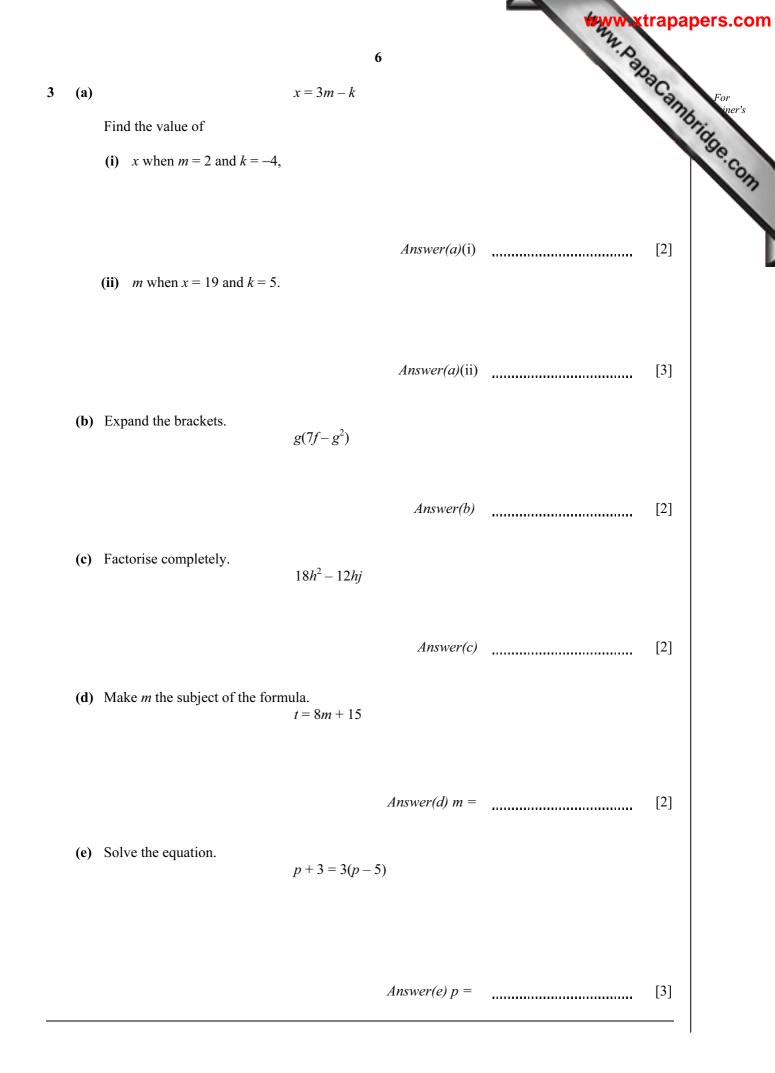


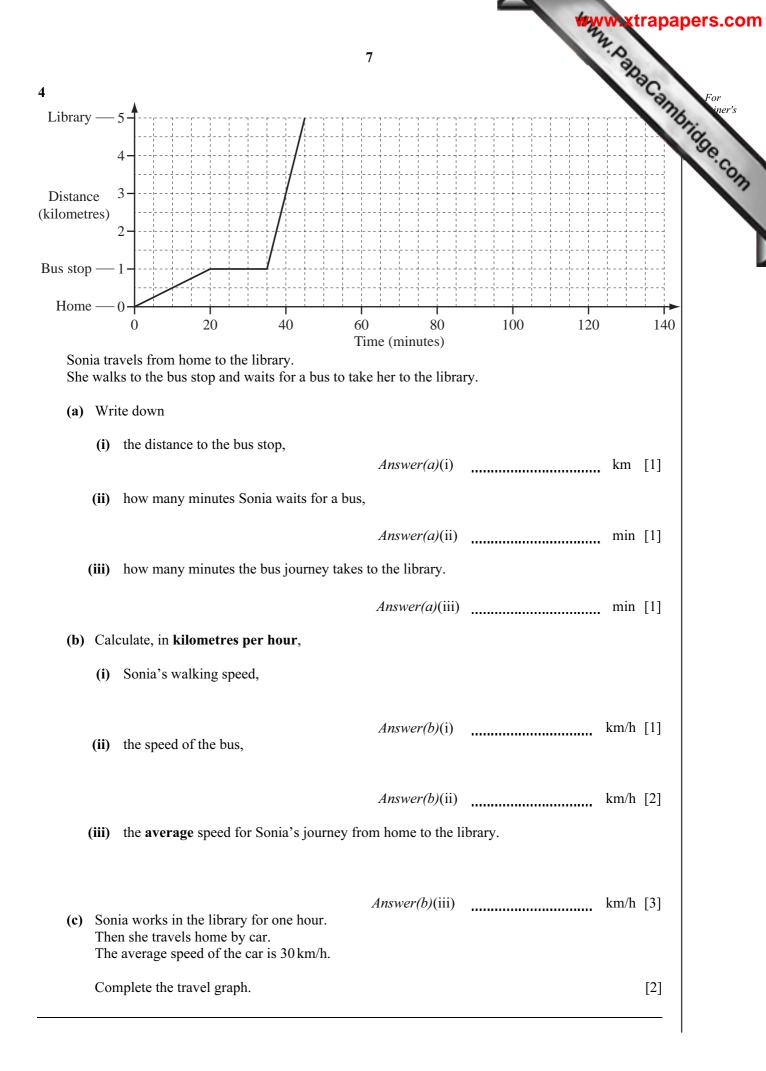
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Answer(a) € [2] •) Tickets for an amusement park cost 662 for an adult and €52 for a child. Work out the cost for Mr and Mrs Clark and their three children to visit the park. Answer(b) € [3] c) Mr Clark sees a notice: [3] SPECIAL OFFER! Family ticket €200 Work out €200 as a percentage of your answer to part (b). (b)			2	2.00	and the second
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Work out €200 as a percentage of your answer to part (b) .					
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Answer(c) % [1]		Work out €200 as a percentage of	f your answer to part (b) .		
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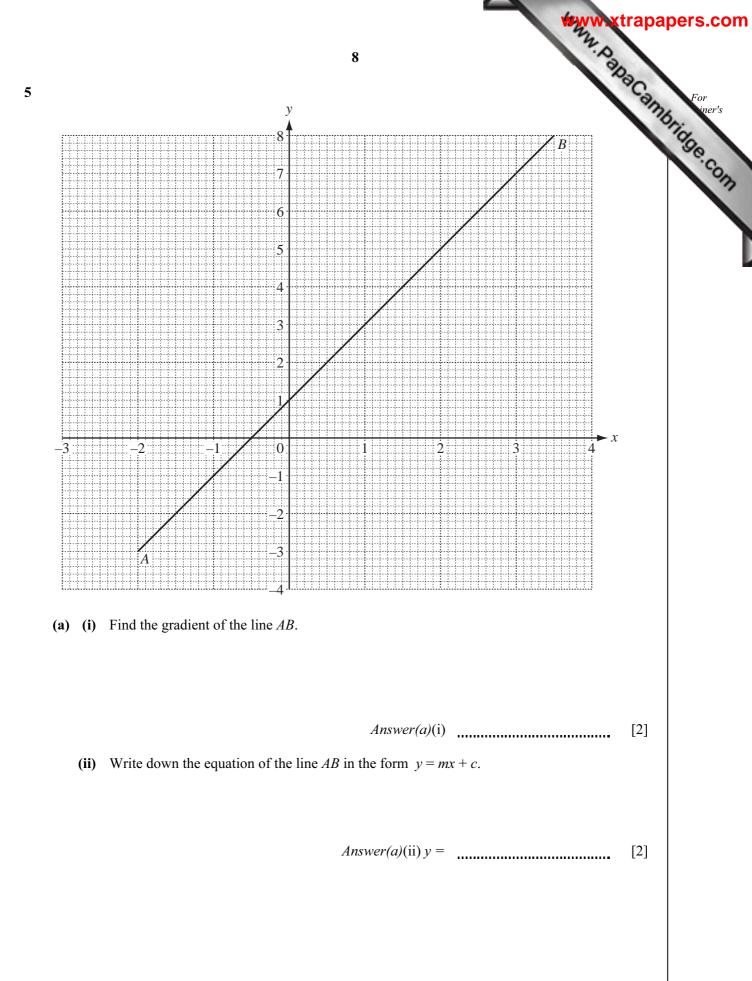


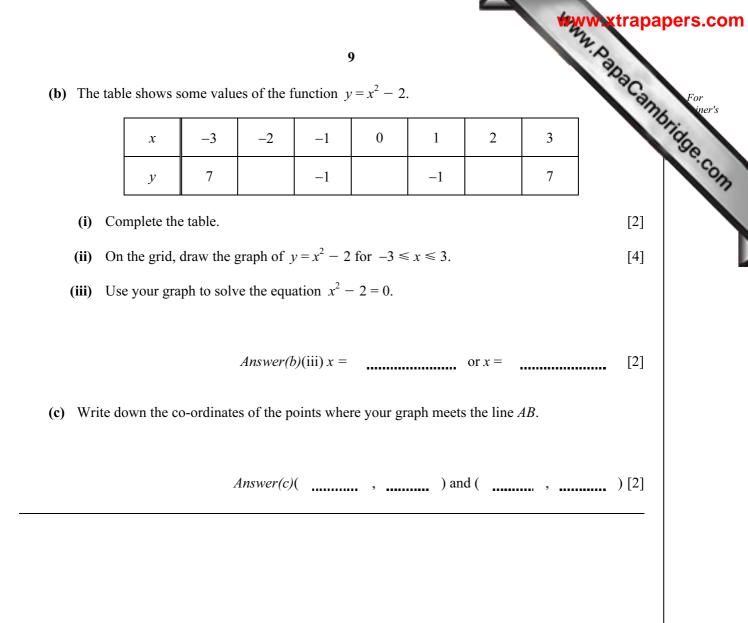


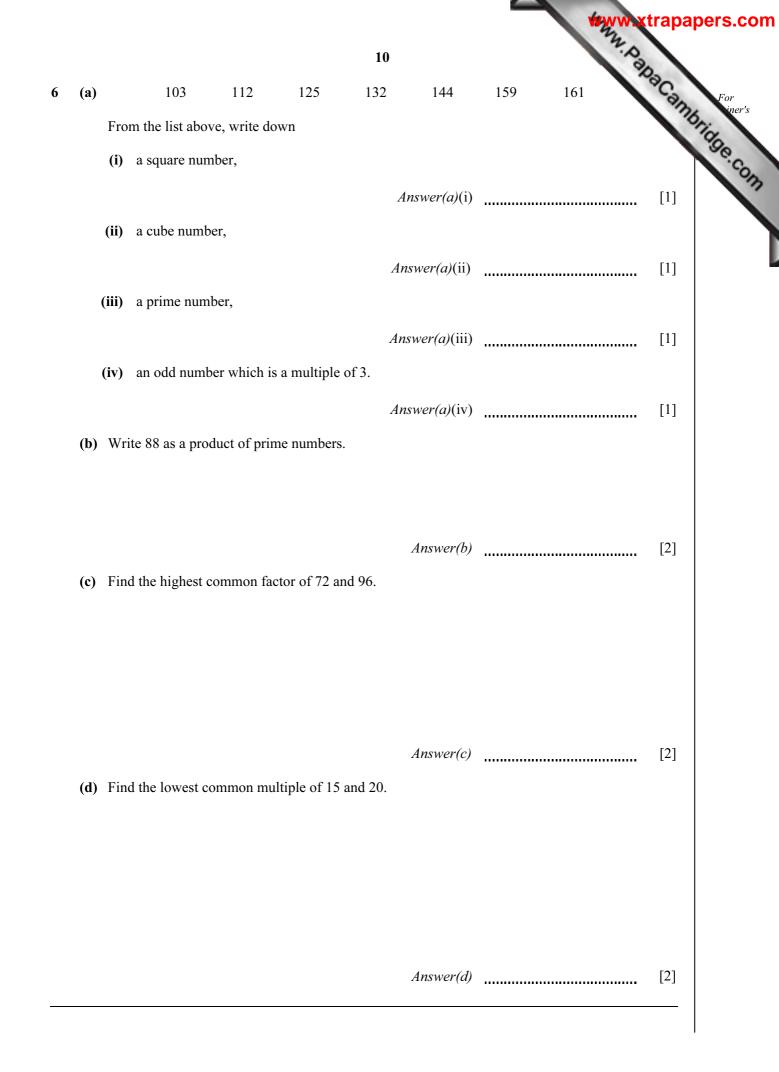


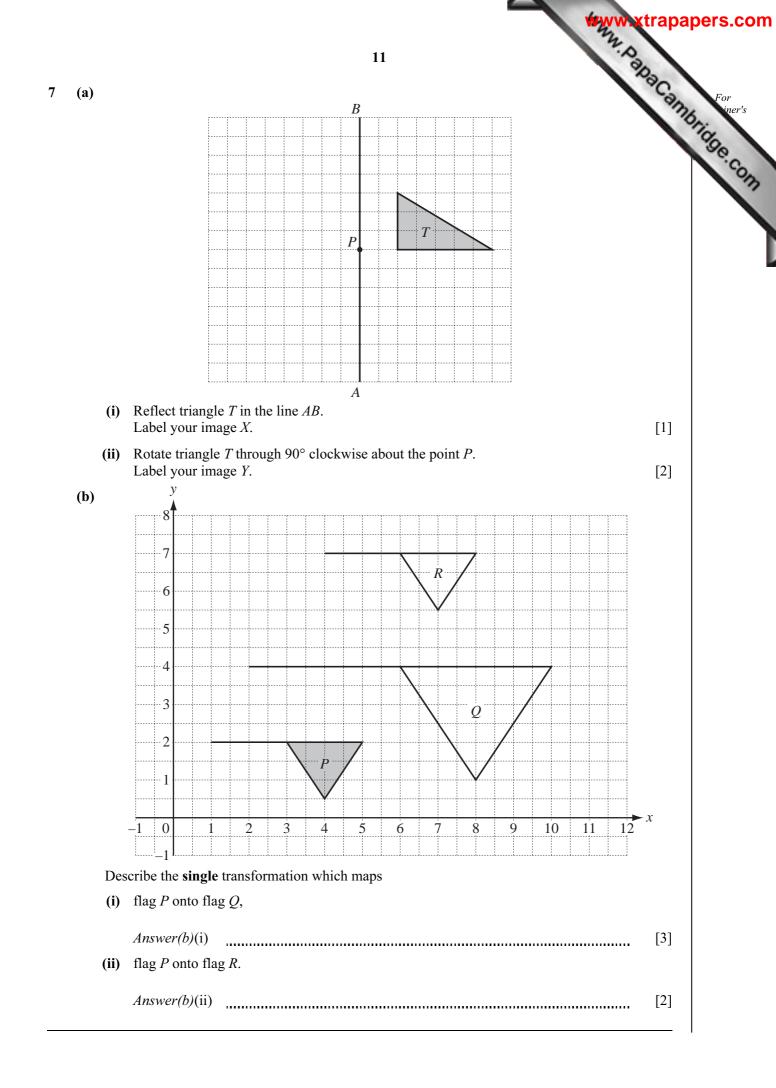












8	30 students took a vocabulary test.		
	The marks they scored are shown below.		

7	8	5	8	3
6	6	3	3	6
7	1	5	10	2
6	5	8	1	2
3	1	5	3	10

(a) Complete the frequency table below.

The first five frequencies have been completed for you. You may use the tally column to help you.

Mark	Tally	Frequency
1		3
2		4
3		6
4		0
5		4
6		
7		
8		
9		
10		

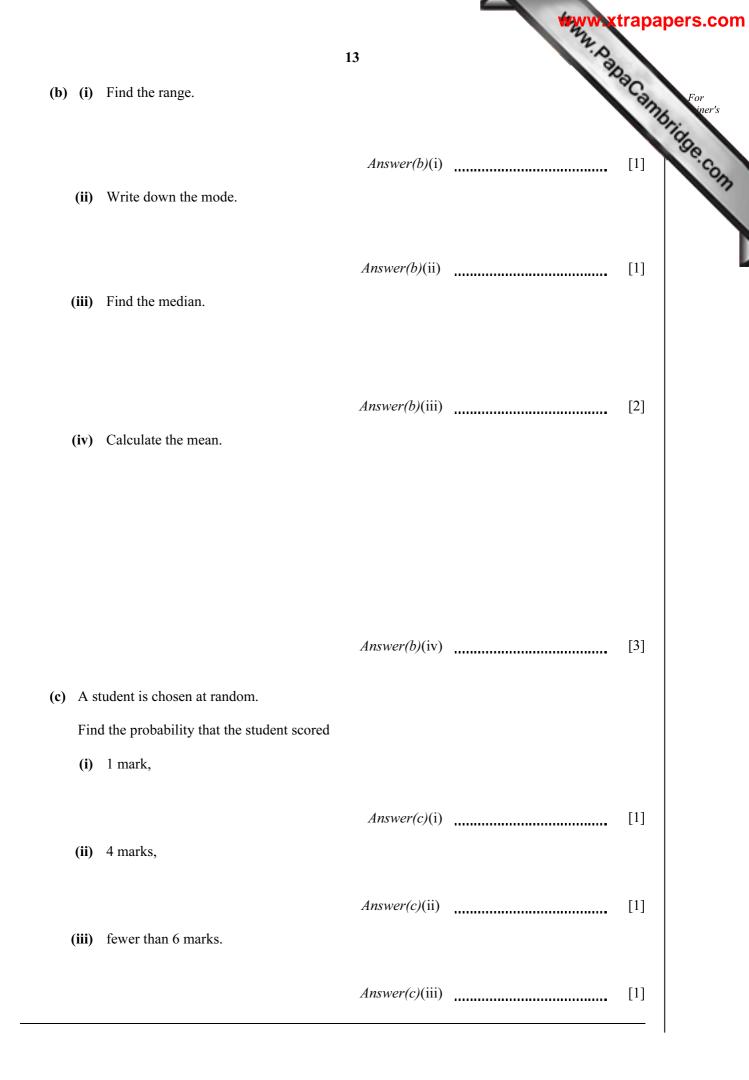
[3]

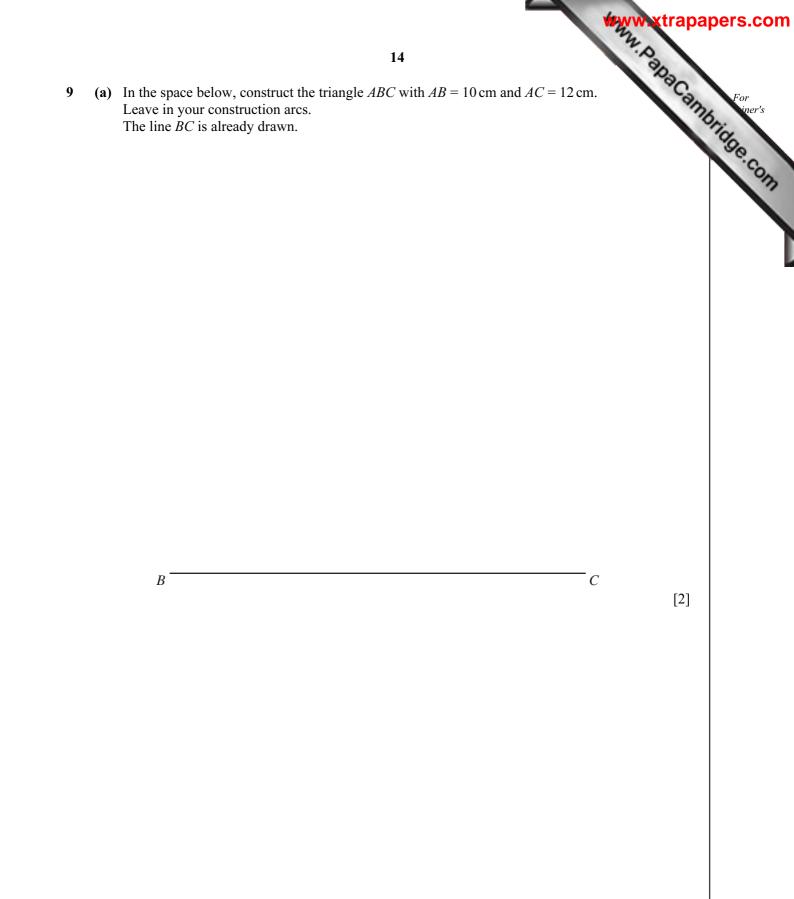
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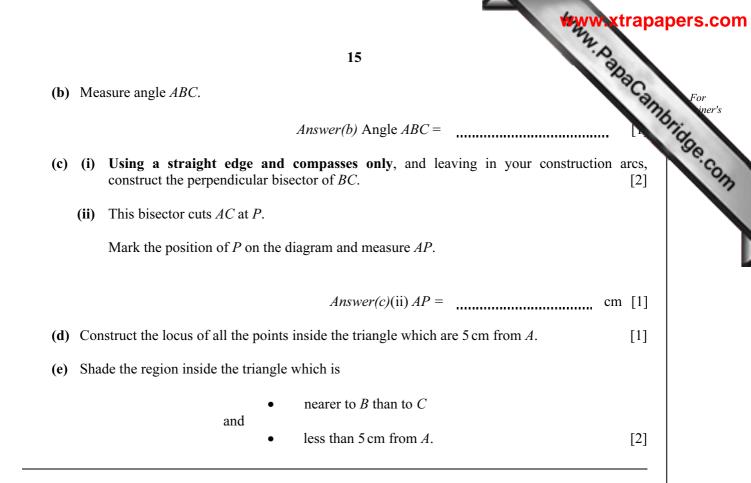
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7

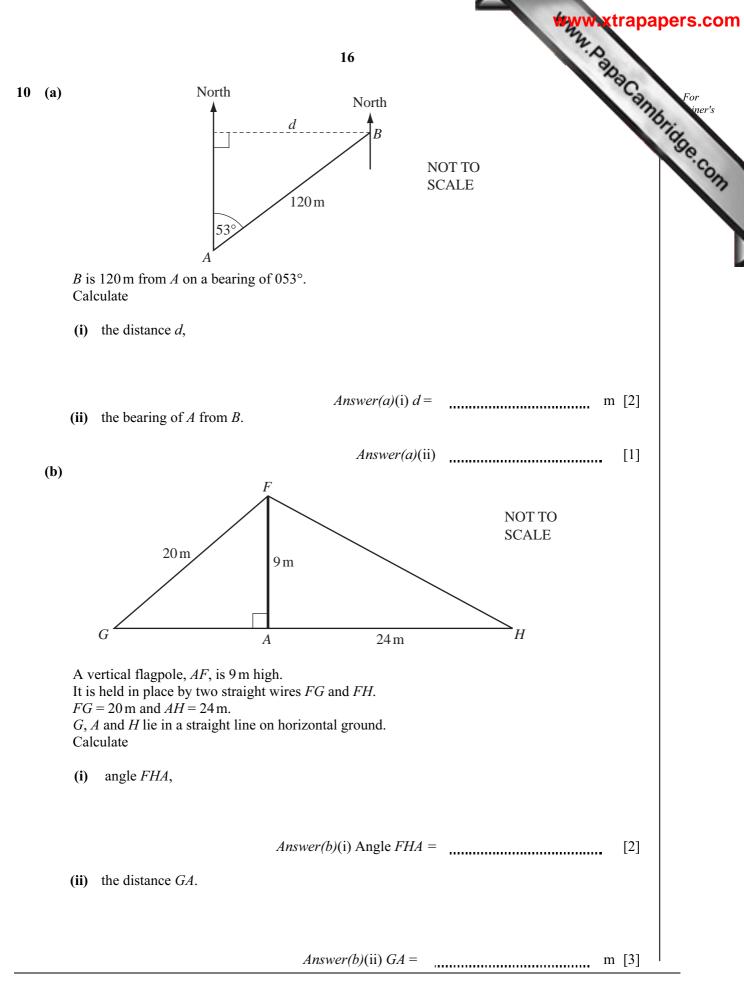
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Question 10 is printed on the next page.
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