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	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education
CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER
MATHEMATICS	0580/11
Paper 1 (Core)	May/June 2012
	1 hour
Candidates ans	ver on the Question Paper.
Additional Mater	ials:Electronic calculatorGeometrical instrumentsMathematical tables (optional)Tracing paper (optional)

## **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  $\pi$ , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

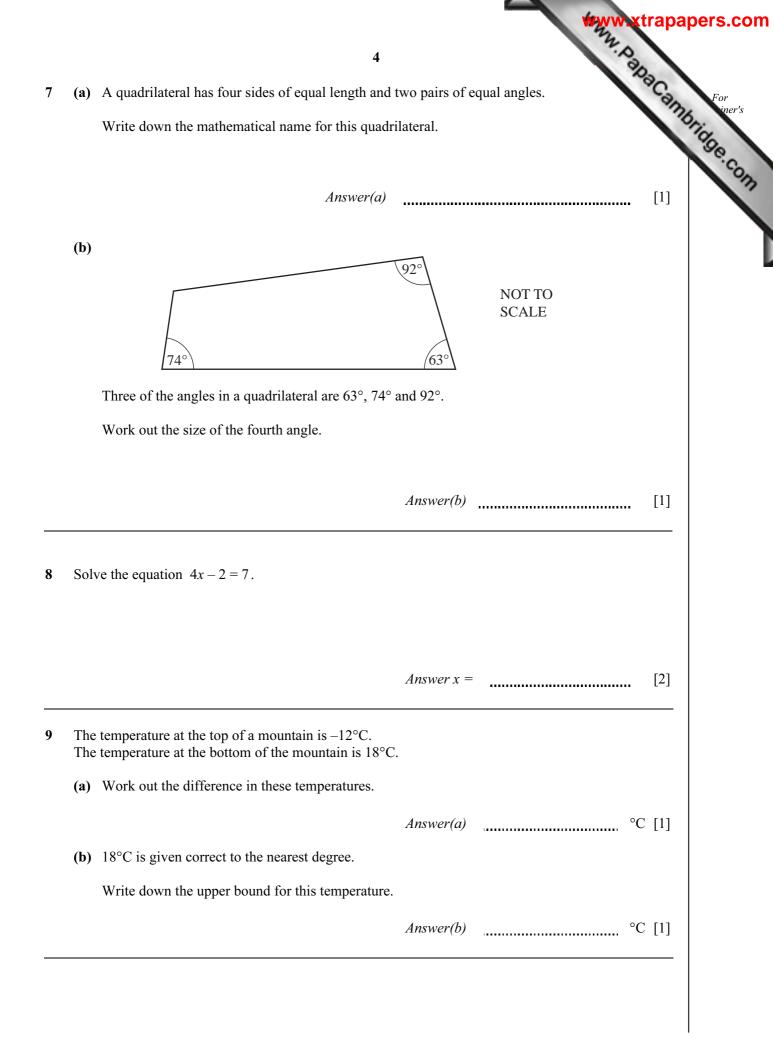
The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 56.

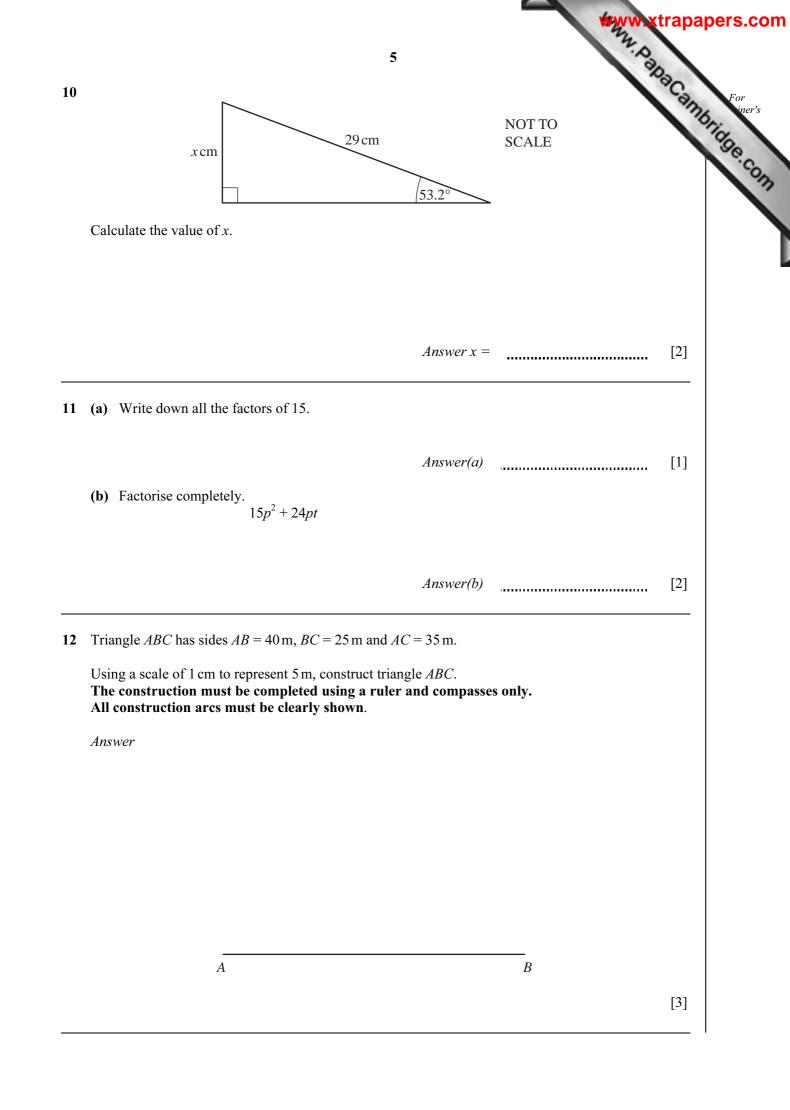
This document consists of 12 printed pages.

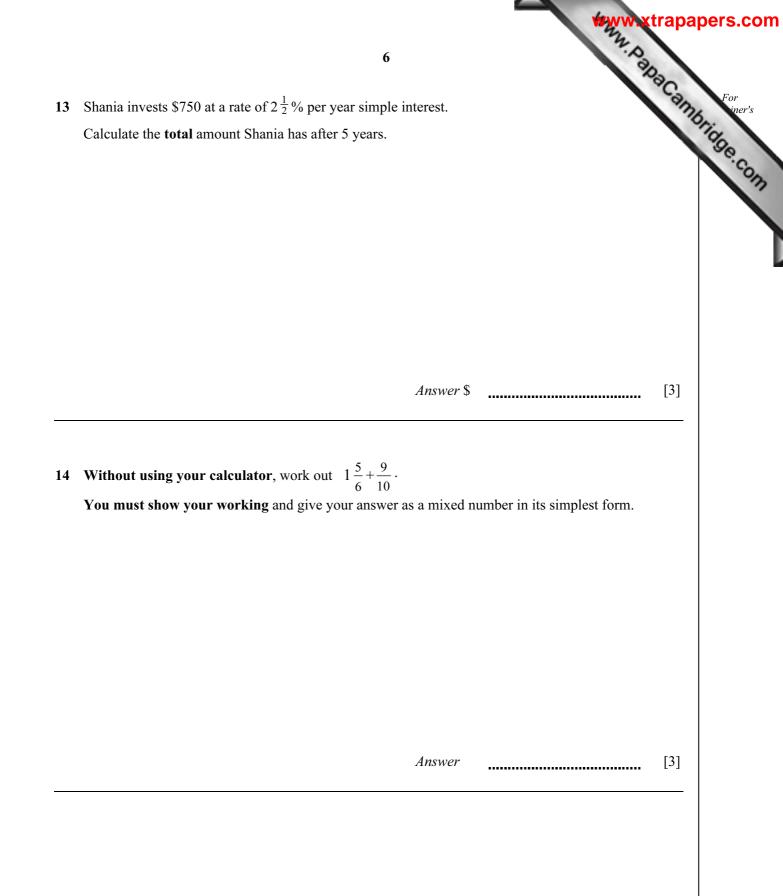


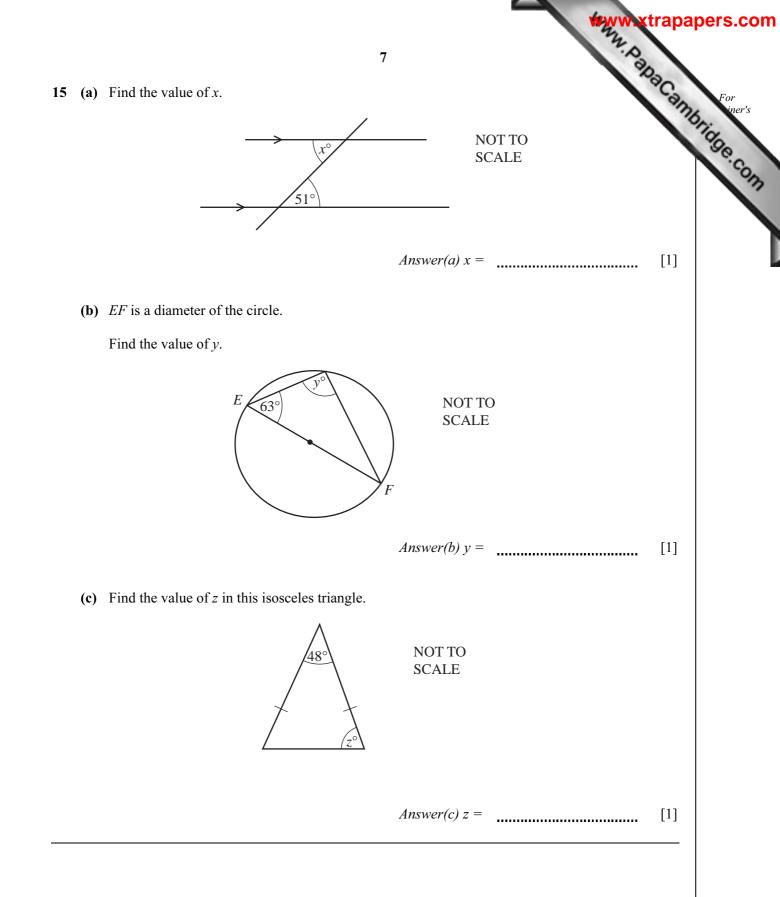
	May Wax t	rapapers.
	2	
1	Kyle scores 84 marks out of 96 in an examination.	For iner
	Work out his percentage mark.	orige
		For iner
	Answer%	[1]
2		
	The lengths of each side of this triangle are the same.	
	(a) Write down the mathematical name for this triangle.	
	Answer(a)	[1]
	(b) Write down the number of lines of symmetry for the triangle.	
	Answer(b)	[1]
3	Work out the number of minutes from 1827 on Tuesday to 0319 on Wednesday.	
	Answer min	[2]

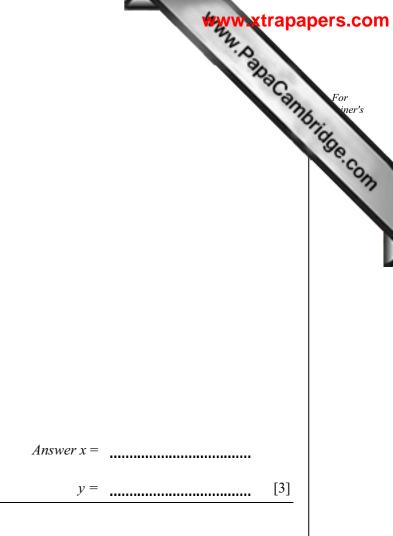
		VERNWAX II	apa
	<b>3</b> Gregor changes \$700 into euros (€) when the rate is $€1 = $1.4131$ .	Pato	C
	Calculate the amount he receives.		am
	Answer €		[2]
	w = 3a - 5b		
5	Calculate w when $a = 2$ and $b = -3$ .		
	Answer $w =$		[2]
5	One bracelet costs 85 cents and one necklace costs \$7.50.		
	Write down an expression, in dollars, for the total cost of $b$ bracelets and $n$ r	necklaces.	
	Answer \$		[2]





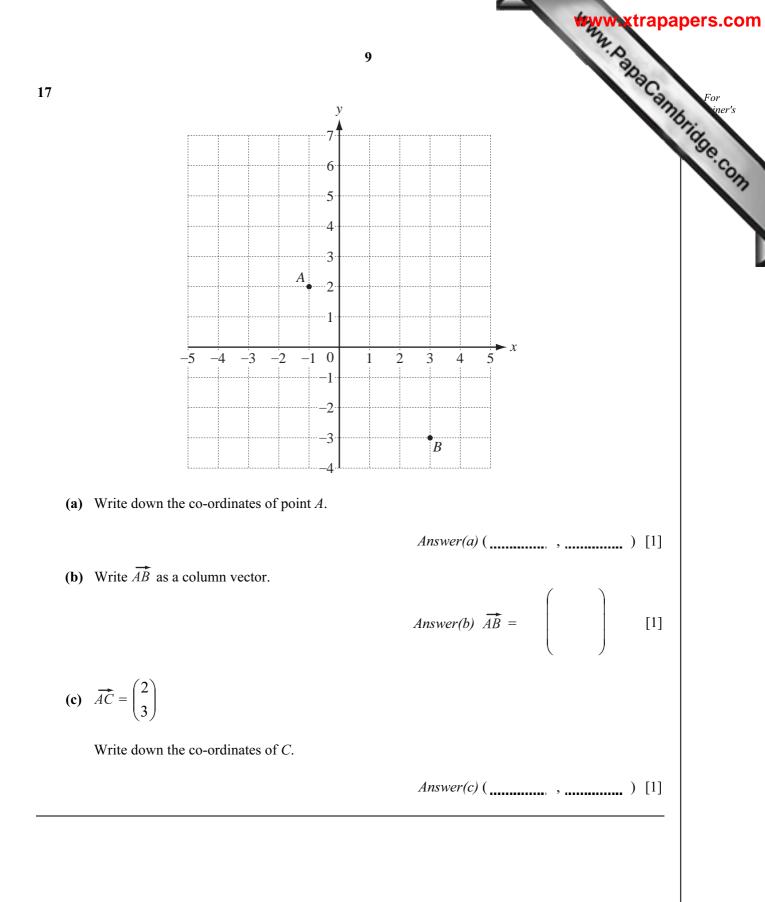


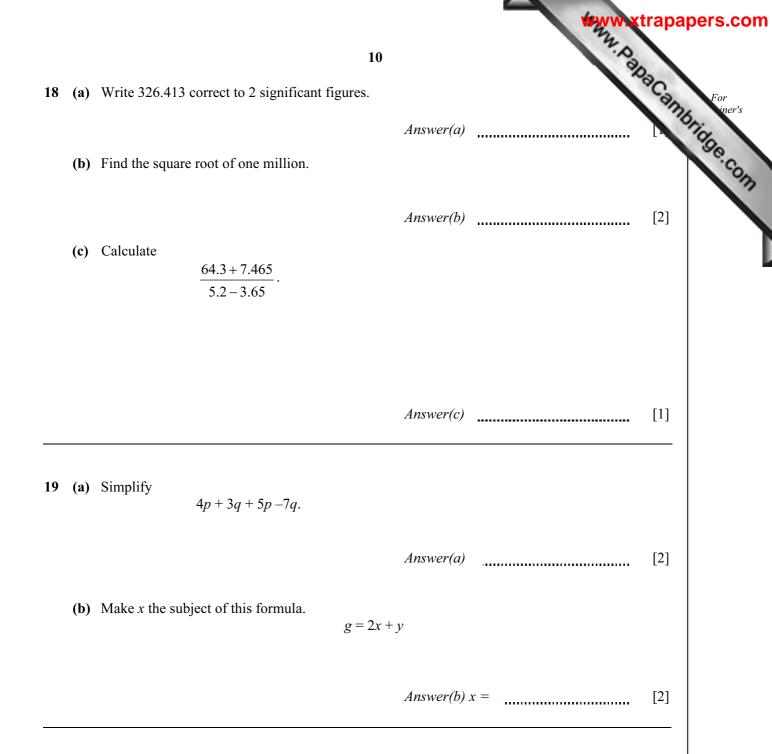


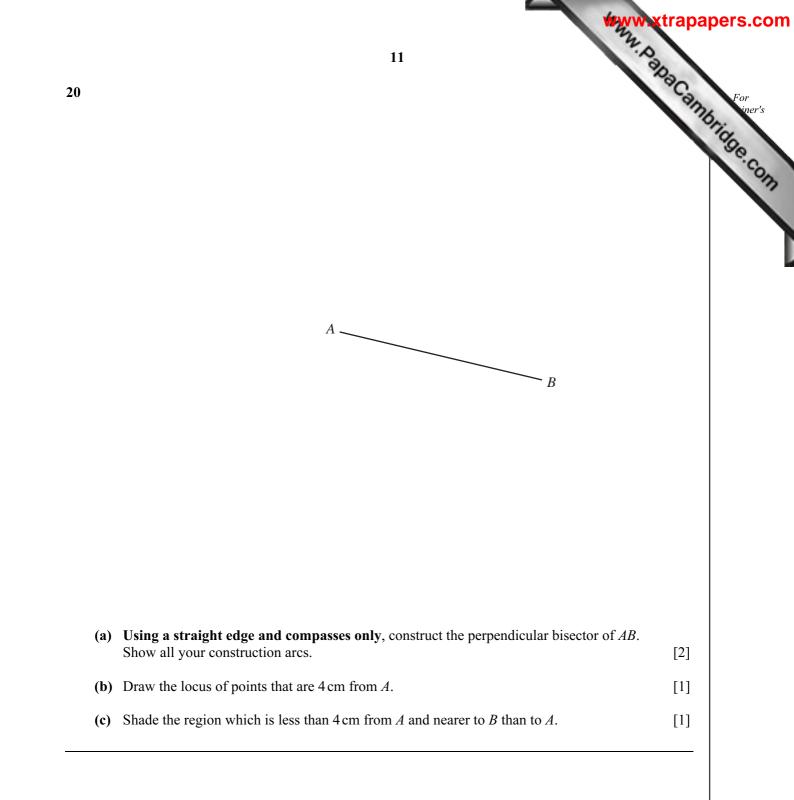


**16** Solve the simultaneous equations.

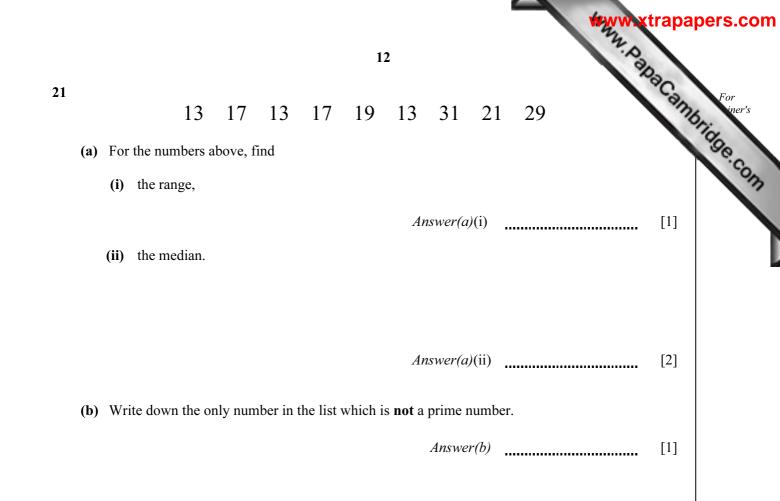
3x + 5y = 24x + 7y = 56







Question 21 is printed on the next page.



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