

57337604

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
MATHEMATICS	;	0580/13
Paper 1 (Core)		October/November 2012
		1 hour
Candidates ans	ver on the Question Paper.	
Additional Mater	ials: Electronic calculator Mathematical tables (optional)	Geometrical instruments 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.

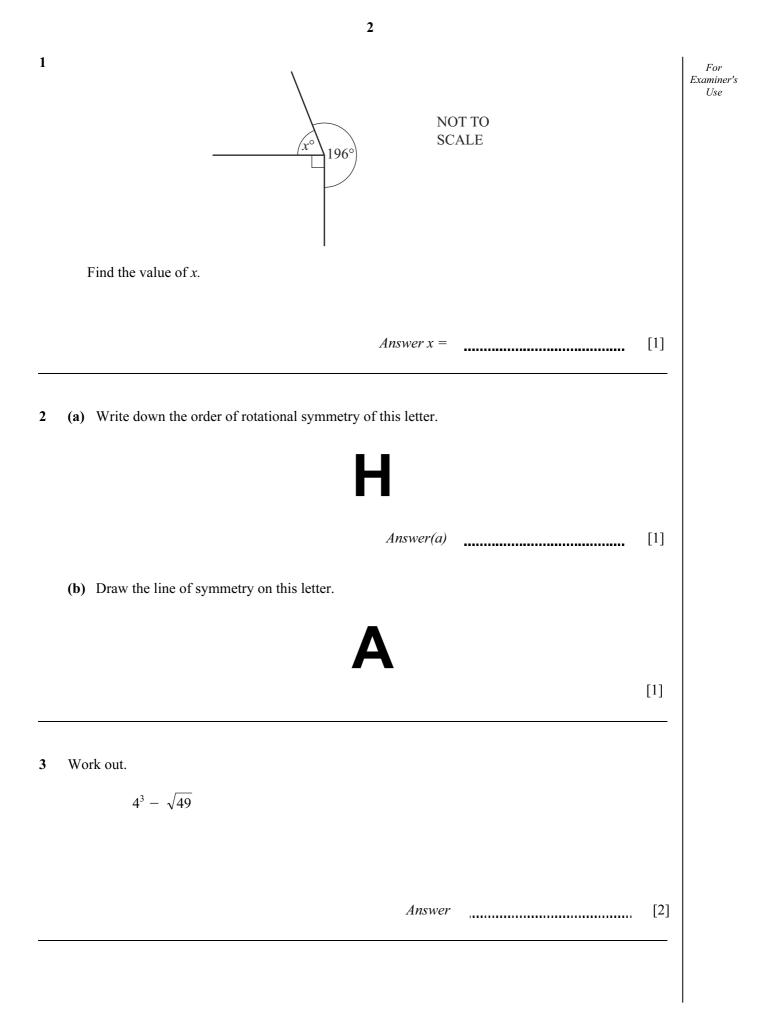
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

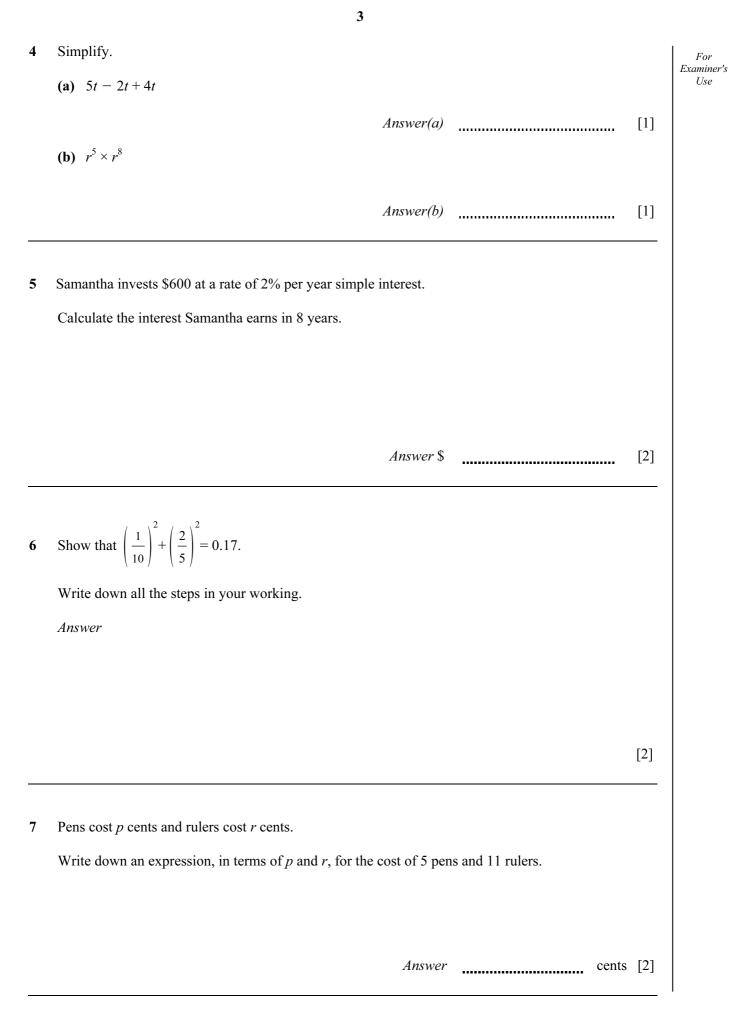
At the end of the examination, fasten all your work securely together.

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 56.

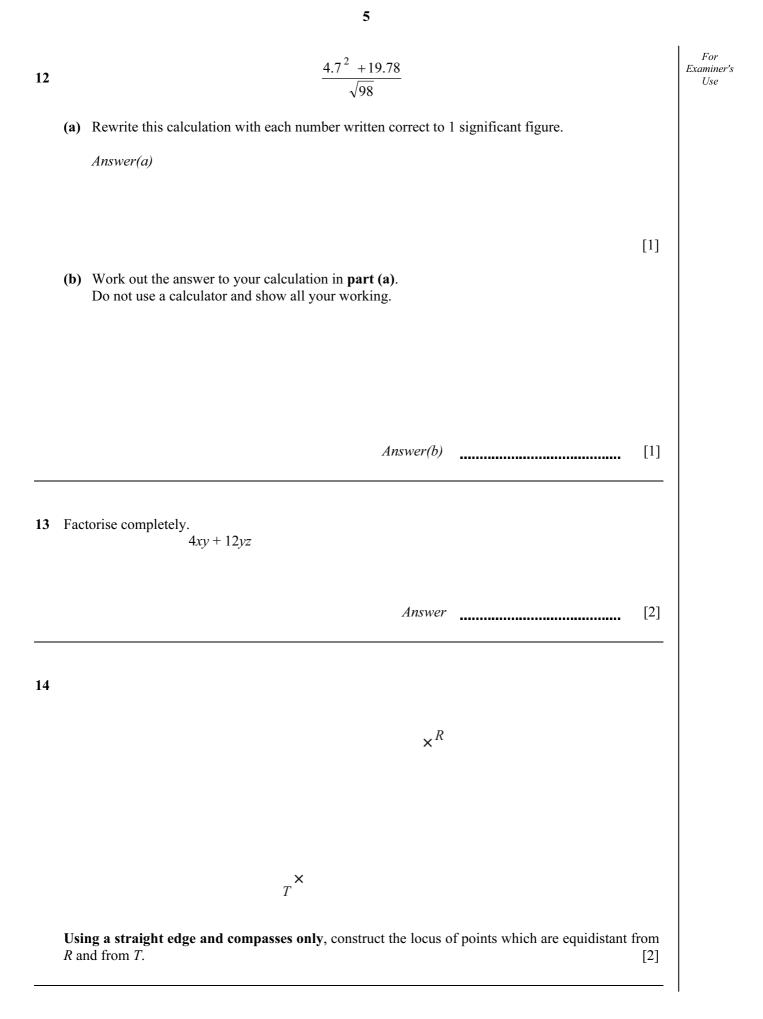
This document consists of **12** printed pages.







8	Jamie needs 300 g of flour to make 20 cakes. How much flour does he need to make 12 cakes?	For Examiner's Use
	Answer g [2]	
9	Expand the brackets. $y(3 - y^3)$	
	Answer	
10	Maria pays \$84 rent. The rent is increased by 5%.	
	Calculate Maria's new rent.	
	<i>Answer</i> \$ [2]	
11	A carton contains 250 ml of juice, correct to the nearest millilitre. Complete the statement about the amount of juice, <i>j</i> ml, in the carton.	
	Answer $\leq j <$ [2]	



15
Find the value of
$$\frac{7.2}{11.8 - 10.95}$$
.
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If it is possible of a significant figures.

16
Calculate the interior angle of a regular pentagon. You must show all your working.
[2]

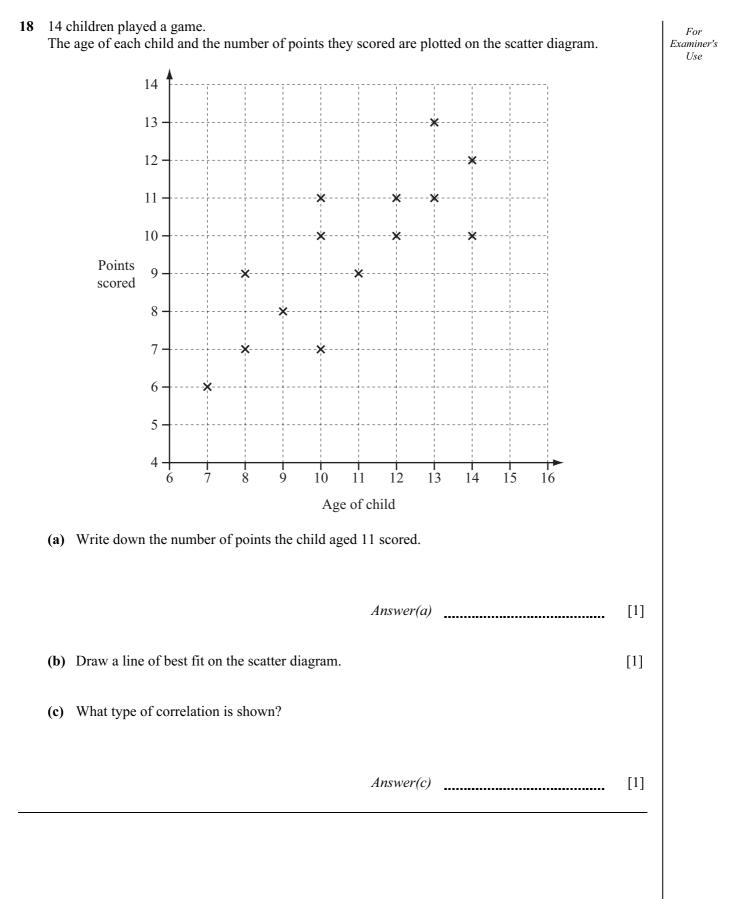
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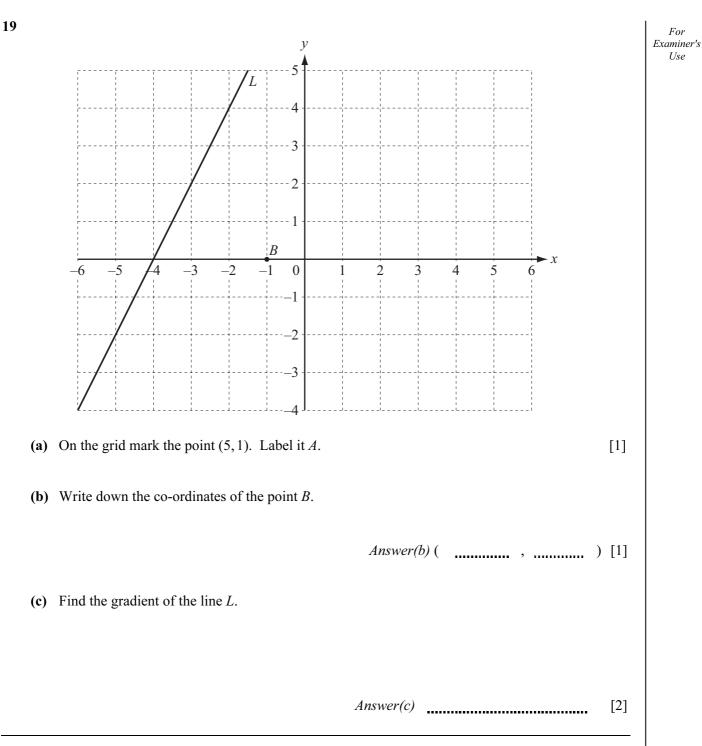
Vithout using your calculator, work out

 $5\frac{3}{8}-2\frac{1}{5}$.

Give your answer as a fraction in its lowest terms. You must show all your working.

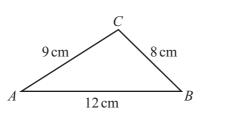
Answer [3]





20	(a)	The probability that the school bus is late is 0.29.	For Examiner's
		Write down the probability that the school bus is not late.	Use
		$Answer(a) \qquad \qquad [1]$	
	(b)	A fridge contains 12 beef pies, 3 vegetable pies and 5 chicken pies. One pie is taken at random from the fridge.	
		Find the probability that it is	
		(i) a vegetable pie,	
		<i>Answer(b)</i> (i) [1]	
		(ii) a beef pie or a vegetable pie,	
		Answer(b)(ii) [1]	
		(iii) a lamb pie.	
		Answer(b)(iii) [1]	

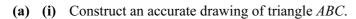
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NOT TO SCALE For Examiner's

Use

[2]

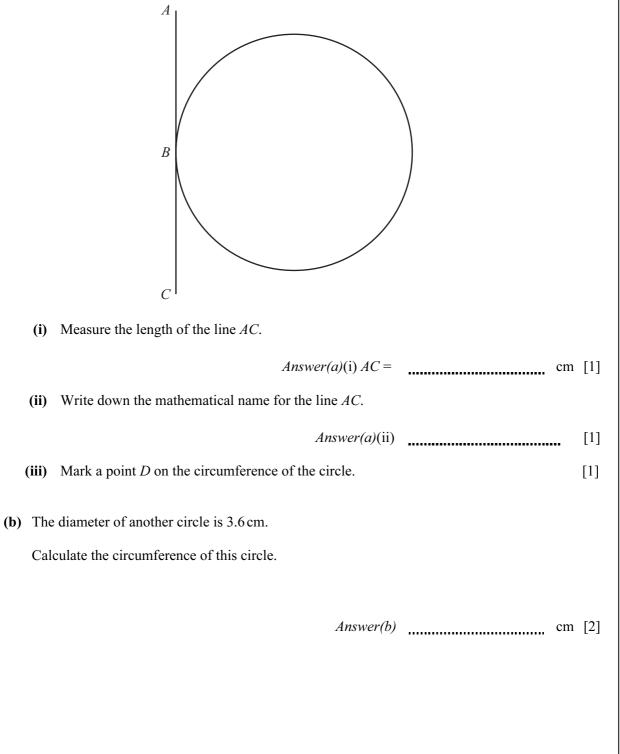


(ii)	On your drawing, mark accurately the midpoint of the side AB.	
	Label it <i>M</i> .	[1]

(b) (i) Sk an an	• opposite angles which are equal	Fo Exami Us
(ii) W	[1] rite down the mathematical name of this quadrilateral.	
	<i>Answer(b)</i> (ii) [1]	
	Question 22 is printed on the next page.	

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22 (a) In the diagram, the line AC touches the circle at B.



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