	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education	Saba Cambro
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
MATHEMATIC	 S	0580/12
Paper 1 (Core)	May	//June 2011
		1 hour
Candidates and	swer on the Question Paper.	
Additional Mate	erials: Electronic calculator Geometrical instruments Mathematical 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.

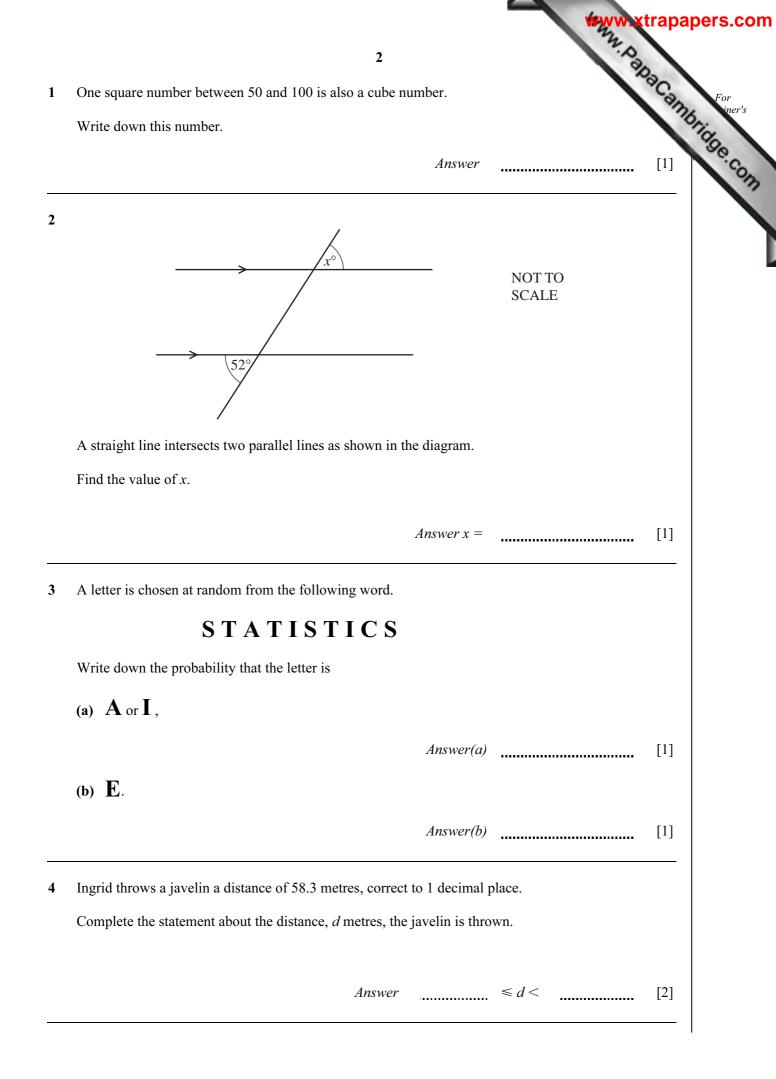
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

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 11 printed pages and 1 blank page.







Write down all the steps in your working.

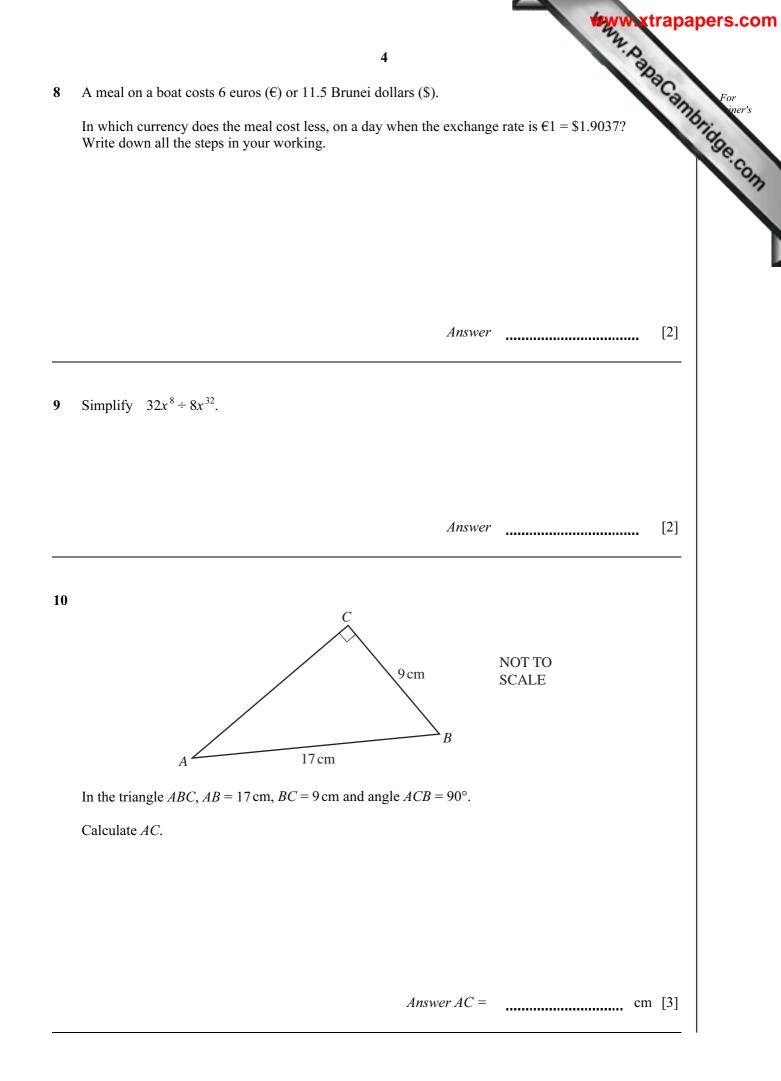
Answer

 $\frac{3}{5}
Which of the following could be a value of p?
<math display="block">\frac{16}{27} = 0.67 = 60\% = (0.8)^2 = \sqrt{\frac{4}{9}}$ Answer _____ [2]
7 Calculate 324 × 17.
Give your answer in standard form, correct to 3 significant figures.

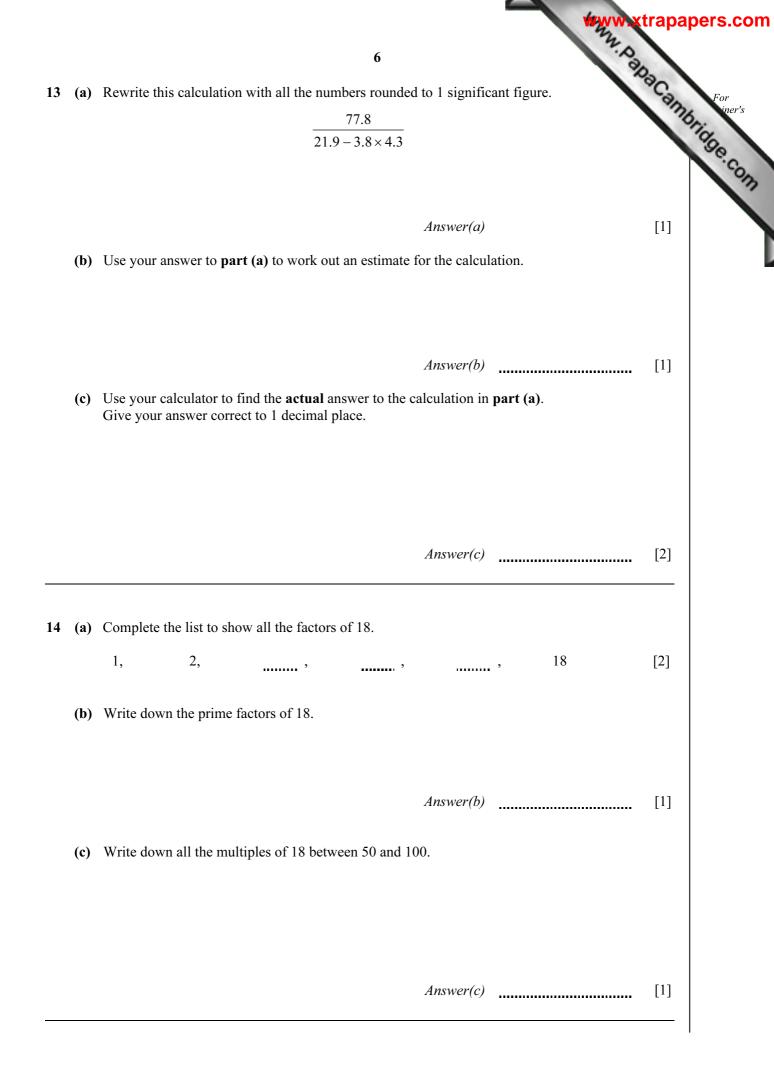
Answer [2]

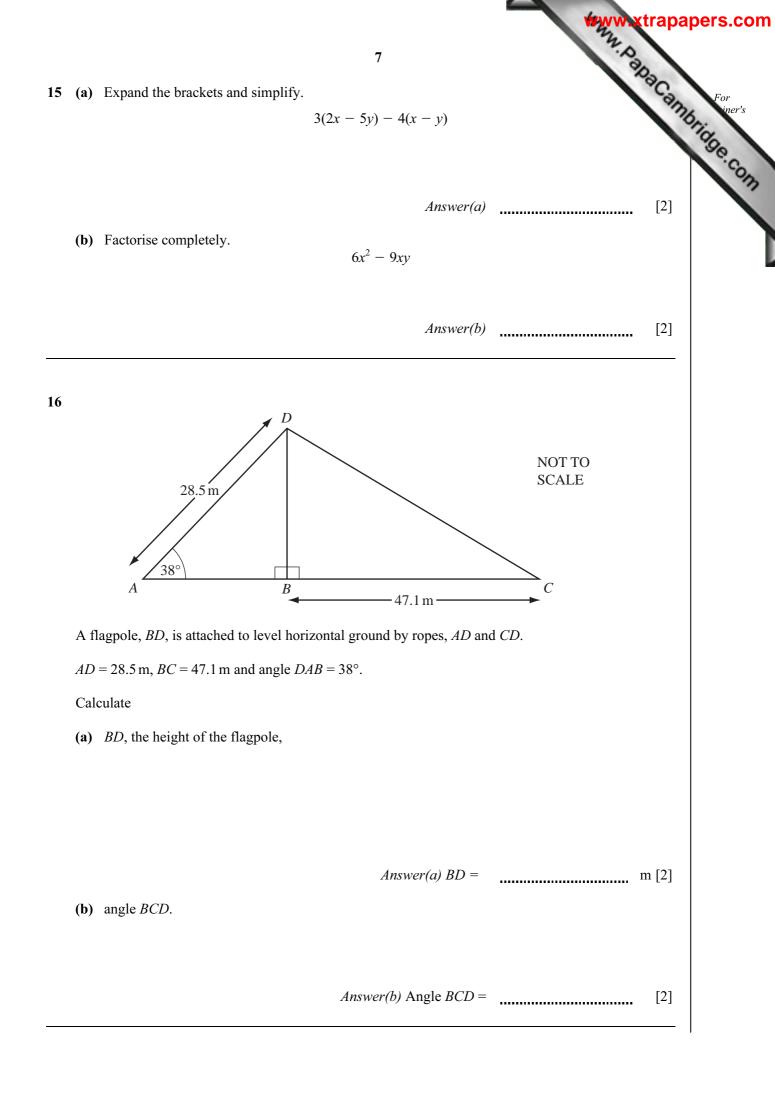
For iner's

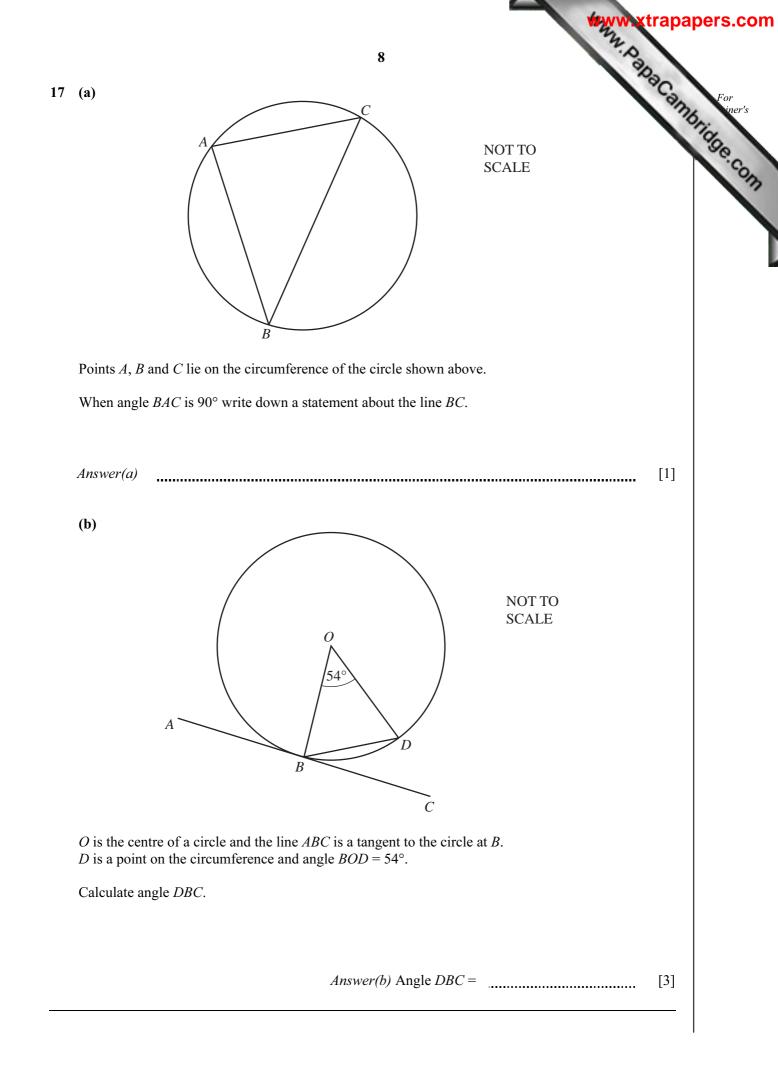
3

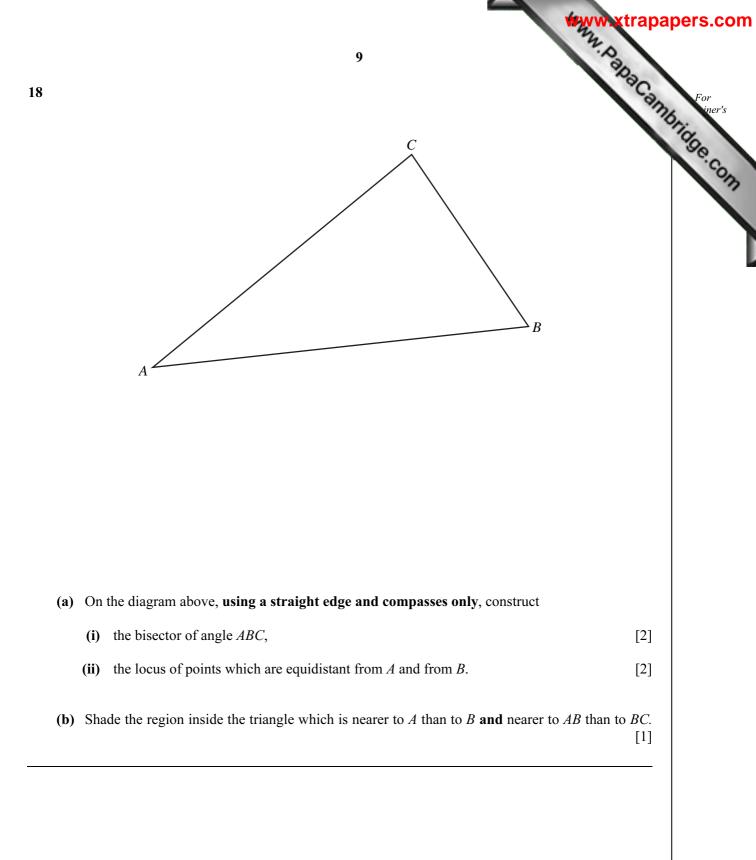


t Sun 0 0800 5 The table shows the opening and closing times of a café. 11 Wed Mon Tue Thu Fri Sat Opening time 0600 0600 0600 0600 0600 *(a)* Closing time 2200 2200 2200 2200 2200 2200 1300 (a) The café is open for a total of 100 hours each week. Work out the opening time on Saturday. Answer(a) [2] (b) The owner decides to close the café at a later time on Sunday. This increases the total number of hours the café is open by 4%. Work out the new closing time on Sunday. Answer(b) [1] **12** $\overrightarrow{AB} = \begin{pmatrix} 3 \\ -1 \end{pmatrix}$ and $\overrightarrow{BC} = \begin{pmatrix} -5 \\ 4 \end{pmatrix}$ (a) Find \overrightarrow{AC} . You may use the grid below to help if you wish. Answer(a) $\overrightarrow{AC} =$ [2] (b) Work out \overrightarrow{CA} . Answer(b) $\overrightarrow{CA} =$ [1]

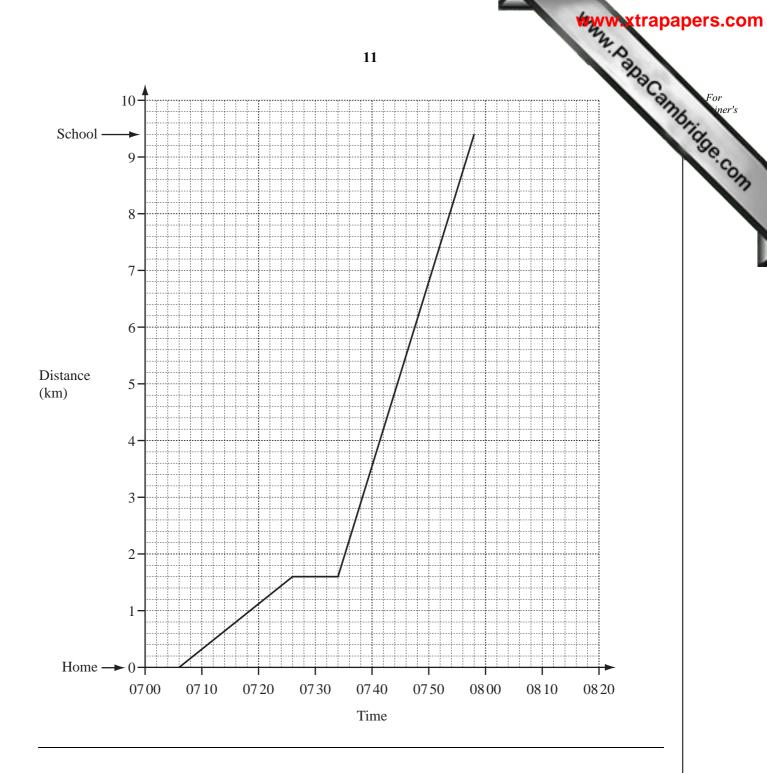








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			10	W.P.	and the second second
19	(a)		e travel graph on the opposite page shows Joel's journey to his walks to the bus stop and waits for the bus, which takes him to	school.	For iner's
		(i)	How long did Joel wait for the bus?		strapapers.com
			Answer(a)(i)		nin [1]
		(ii)	Find the distance from the bus stop to the school.		
			Answer(a)(ii)	kı	m [1]
	(b)		I's sister, Samantha, leaves home 14 minutes later than Joel to cycles at a constant speed and arrives at the school at 0816.	cycle to the same school	1.
		(i)	On the grid, show her journey.		[1]
		(ii)	At what time did the bus pass Samantha?		
			Answer(b)(ii)		[1]
		(iii)	How far from the school was she when the bus passed her?		
			Answer(b)(iii)	kı	m [1]
	(iv) How many minutes after Joel did Samantha arrive at the school?				
			Answer(b)(iv)	m	nin [1]





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