

	_	ERSITY OF CAMBRIDGE INTE ational General Certificate of S	ERNATIONAL EXAMINATIONS econdary Education	W. Papa Cambridge . com
CANDIDATE NAME				
CENTRE NUMBER			CANDIDATE NUMBER	
MATHEMATIC	S			0581/21
Paper 2 (Extended)			October/N	ovember 2013
			1 hc	our 30 minutes
Candidates ans	swer on t	the Question Paper.		
Additional Mate	erials:	Electronic calculator Tracing paper (optional)	Geometrical instruments	

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.

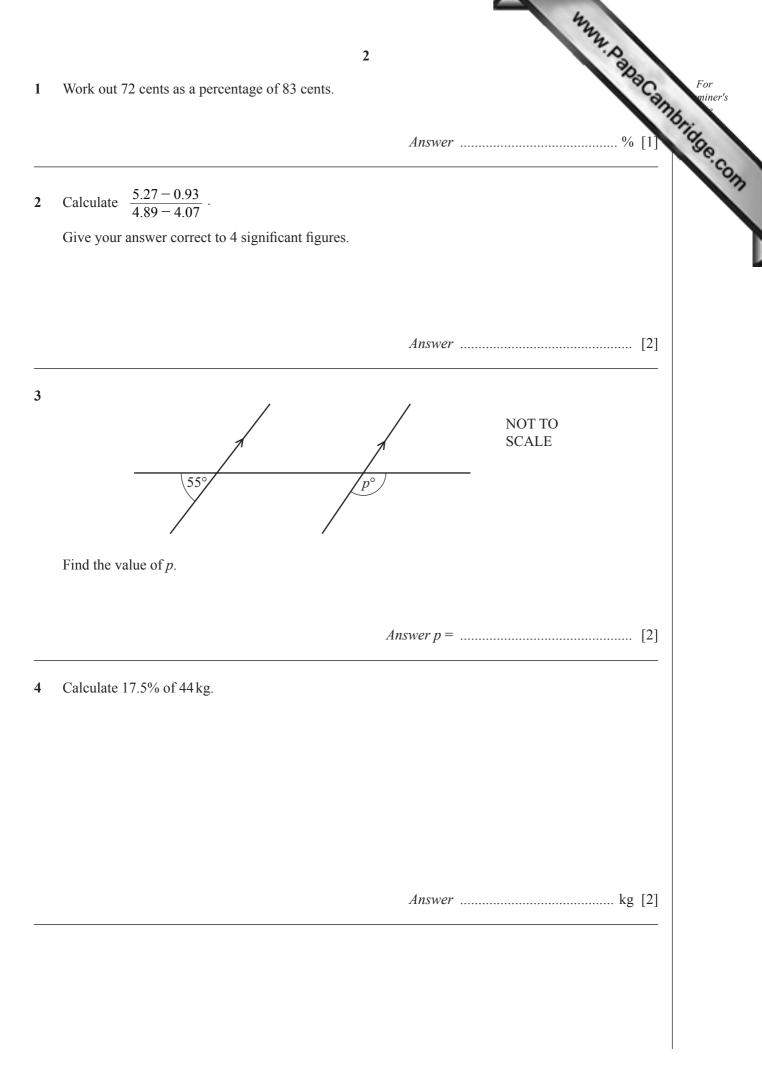
Electronic calculators should be used.

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 70.

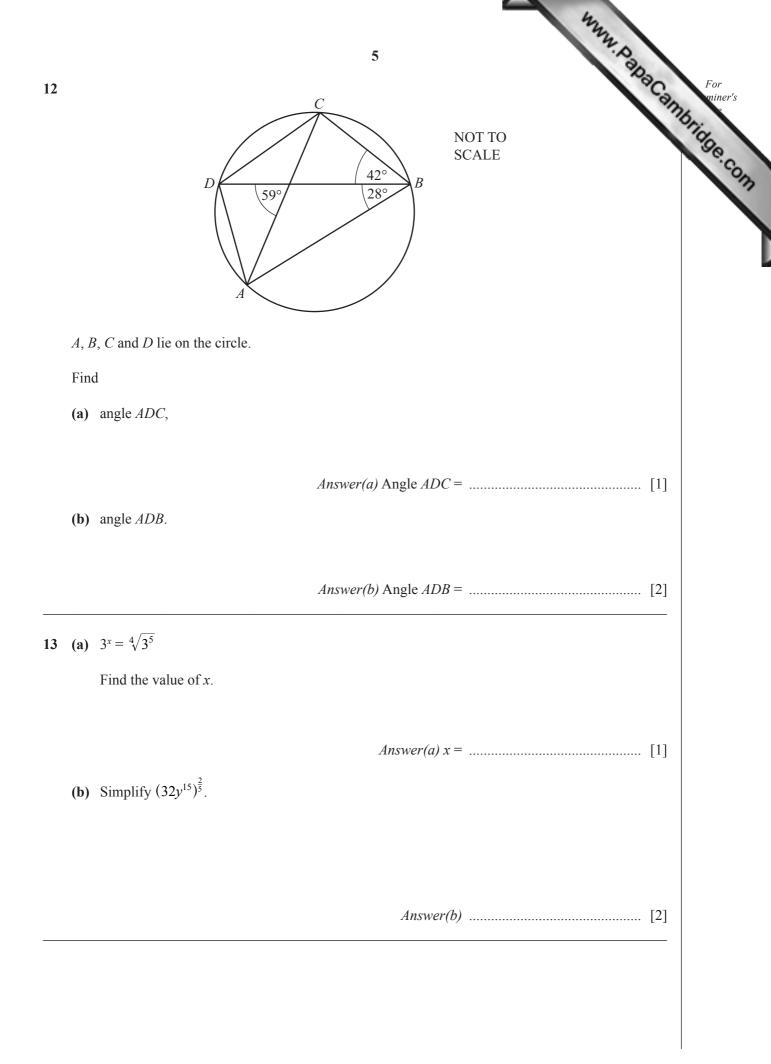
This document consists of **11** printed pages and **1** blank page.

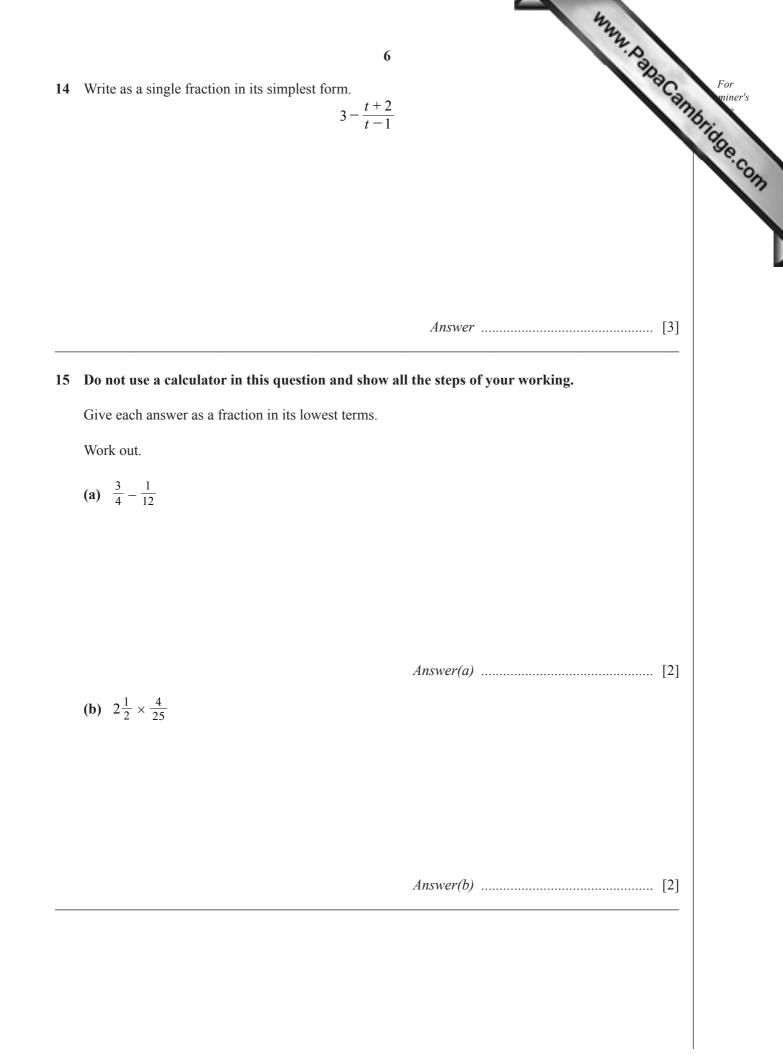


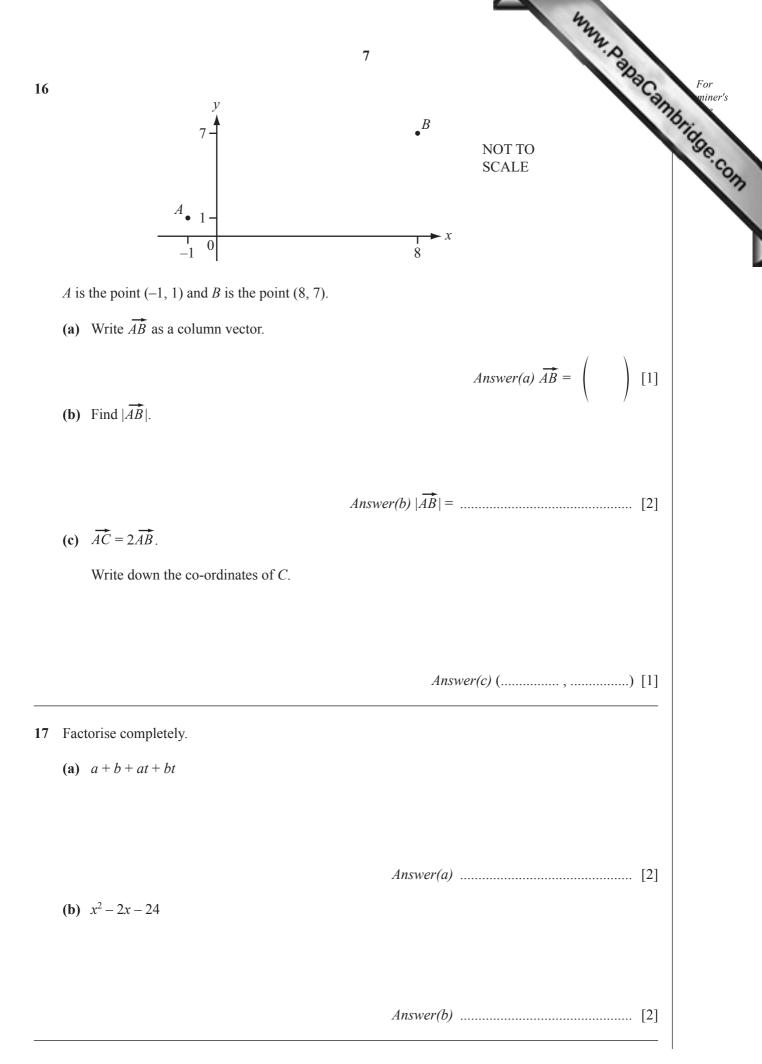


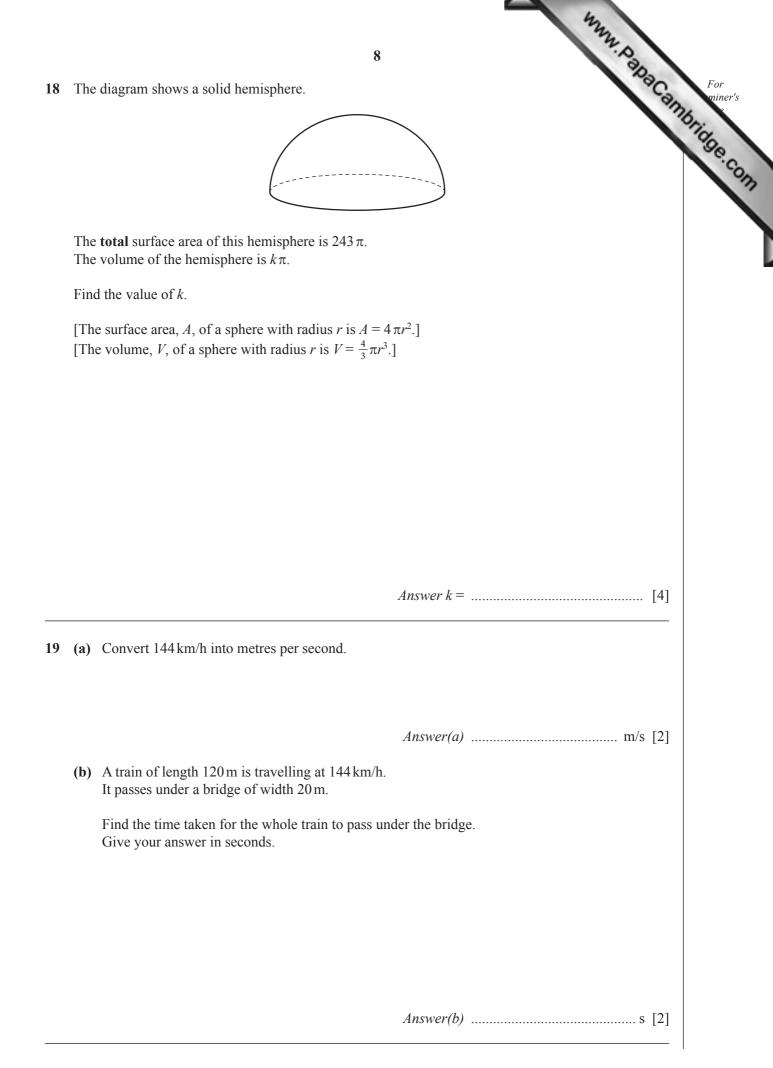
5	3 Solve the equation. $5 - 2x = 3x - 19$	For miner's
	$Answer x = \dots [2]$	
6	S P A C E S	
	One of the 6 letters is taken at random.(a) Write down the probability that the letter is S.	
	 Answer(a)	
	Answer(b) [1]	
7	The length, p cm, of a car is 440 cm, correct to the nearest 10 cm. Complete the statement about p .	
	<i>Answer</i> $\leq p <$ [2]	

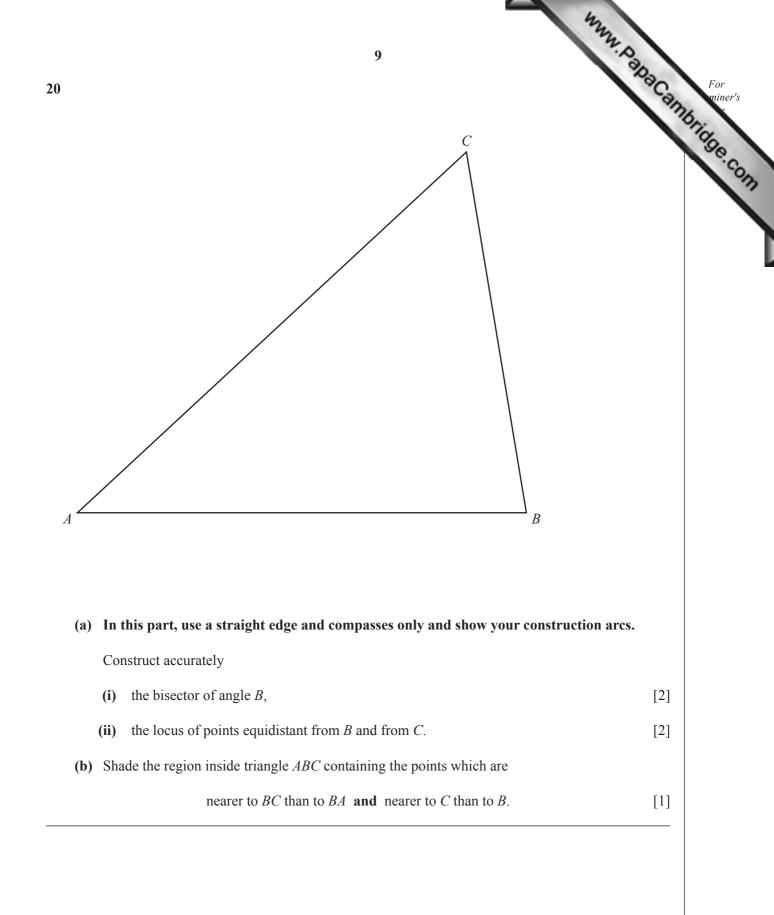
Emily invests x at a rate of 3% per year simple in After 5 years she has 20.10 interest. Find the value of <i>x</i> .	4 ear simple interest.		
	Answer $x = \dots$	[3]	
Find the <i>n</i> th term in each of the following sequence (a) $\frac{1}{3}$, $\frac{2}{4}$, $\frac{3}{5}$, $\frac{4}{6}$, $\frac{5}{7}$,	es.		
(b) 0, 3, 8, 15, 24,	Answer(a)	[1]	
	Answer(b)	[2]	
Make <i>b</i> the subject of the formula. $c = \sqrt{a^2}$	$+b^2$		
	Answer $b = \dots$	[3]	
The volume of a child's model plane is 1200 cm ³ . The volume of the full size plane is 4050 m ³ .			
Find the scale of the model in the form $1:n$.			
	Answer 1:	[3]	

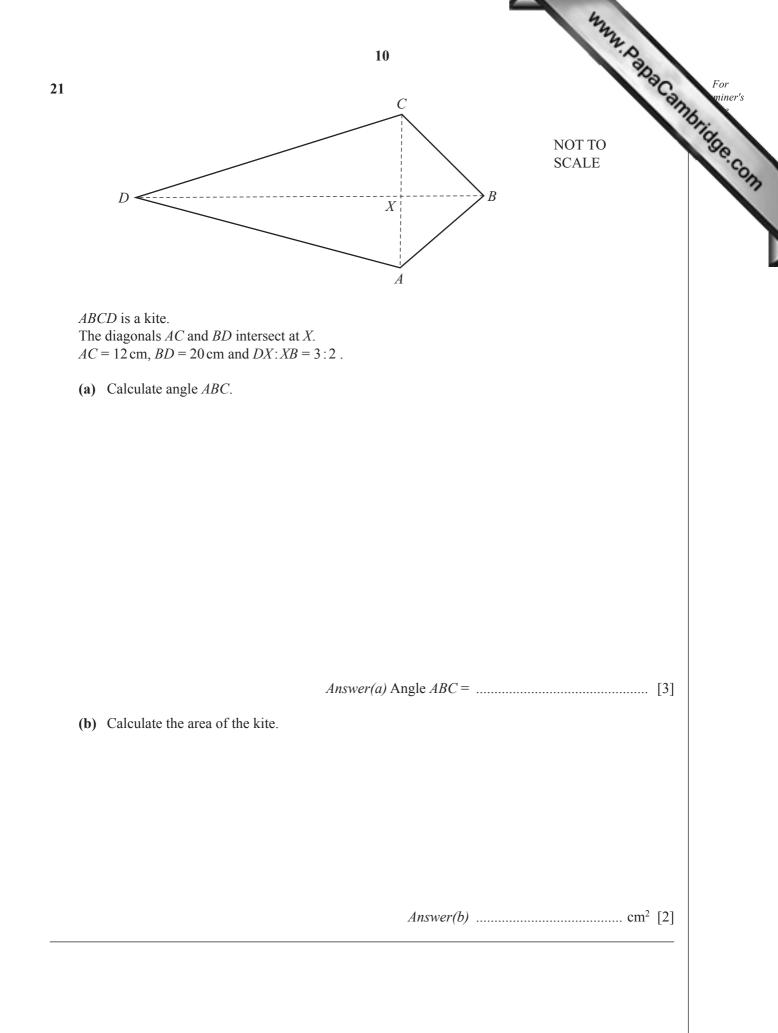


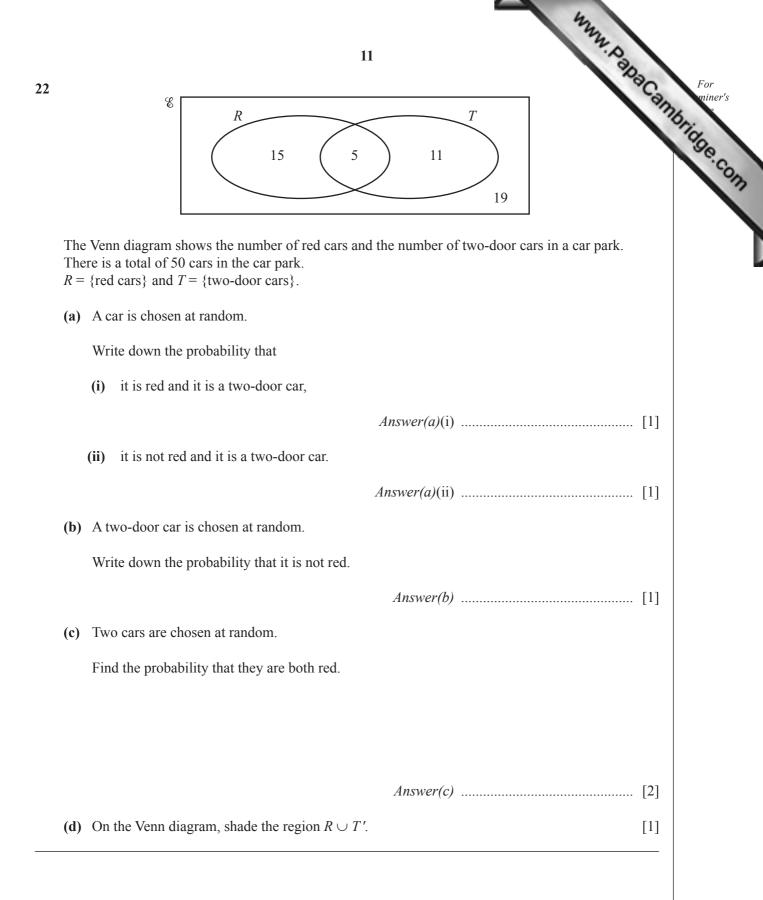














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