

#### 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.

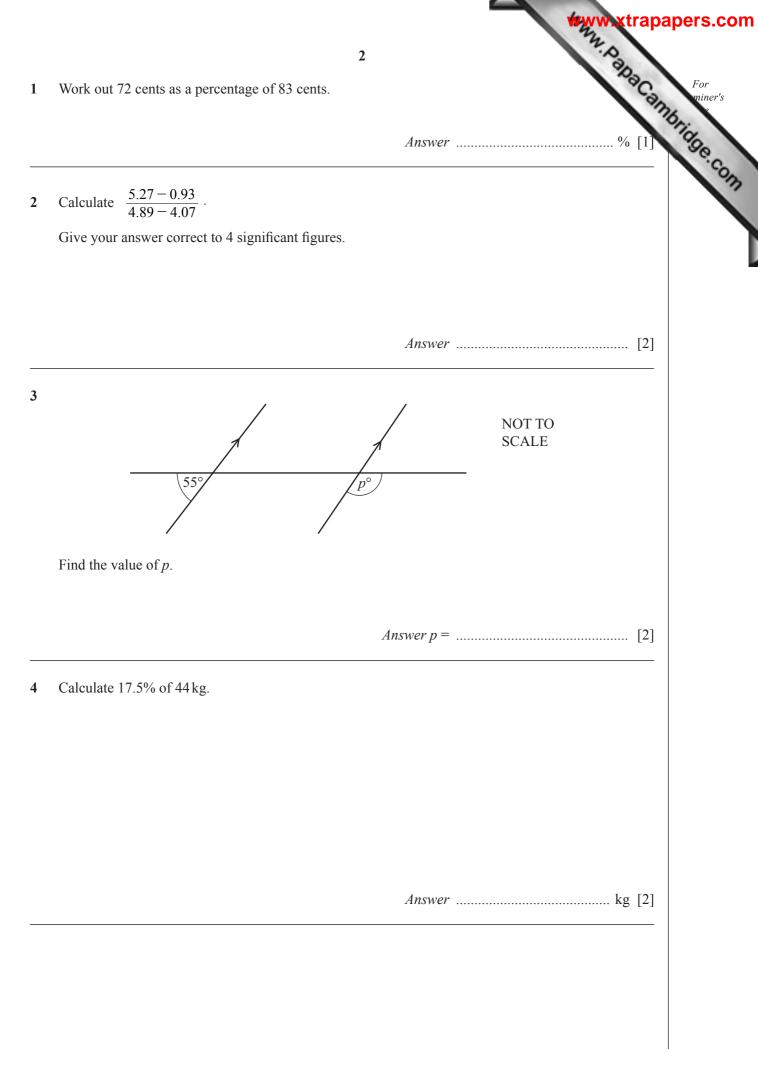
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For  $\pi$ , use either your calculator value or 3.142.

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 70.

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





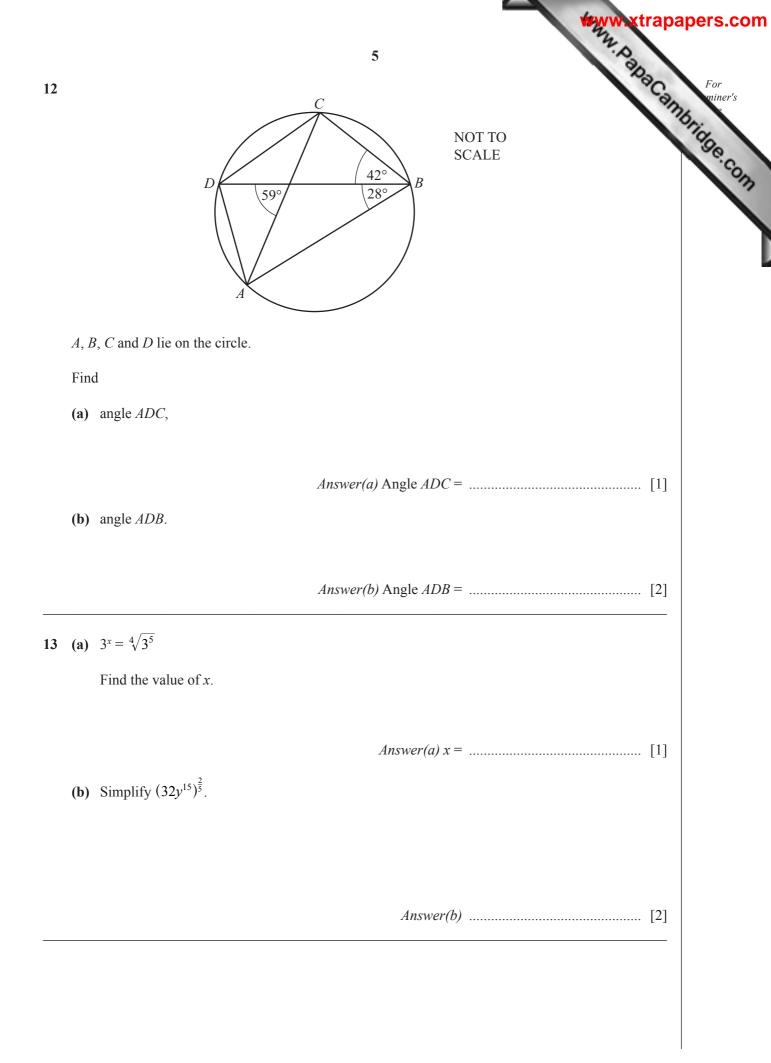


3 Solve the equation. $5-2x=3x-19$
$Answer x = \dots [2]$
S P A C E S
One of the 6 letters is taken at random.
(a) Write down the probability that the letter is S.
Answer(a)[1]
<ul><li>(b) The letter is replaced and again a letter is taken at random. This is repeated 600 times.</li></ul>
How many times would you expect the letter to be S?
<i>Answer(b)</i> [1]
The length, $p \mathrm{cm}$ , of a car is 440 cm, correct to the nearest 10 cm.
Complete the statement about <i>p</i> .
Answer $\ldots \leq p < \ldots$ [2]

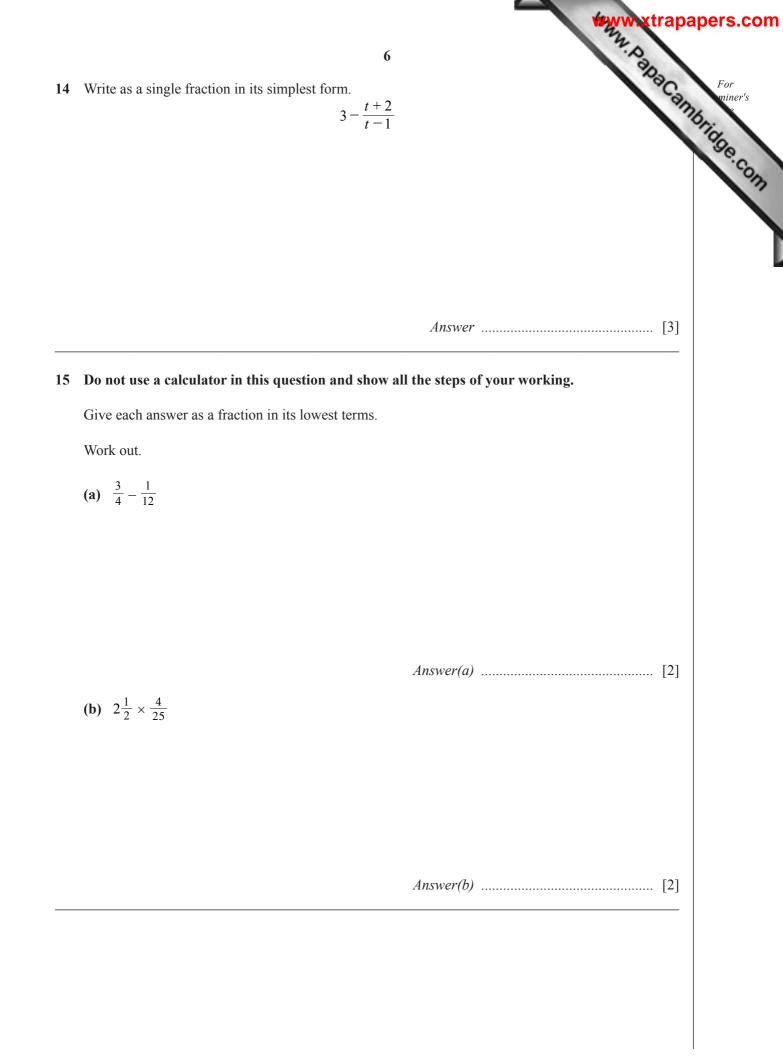


А	4 Simily invests $x$ at a rate of 3% per year simple interest. After 5 years she has \$20.10 interest. After the value of <i>x</i> .	st.	
		Answer $x =$	[3]
	ind the <i>n</i> th term in each of the following sequences. a) $\frac{1}{3}$ , $\frac{2}{4}$ , $\frac{3}{5}$ , $\frac{4}{6}$ , $\frac{5}{7}$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

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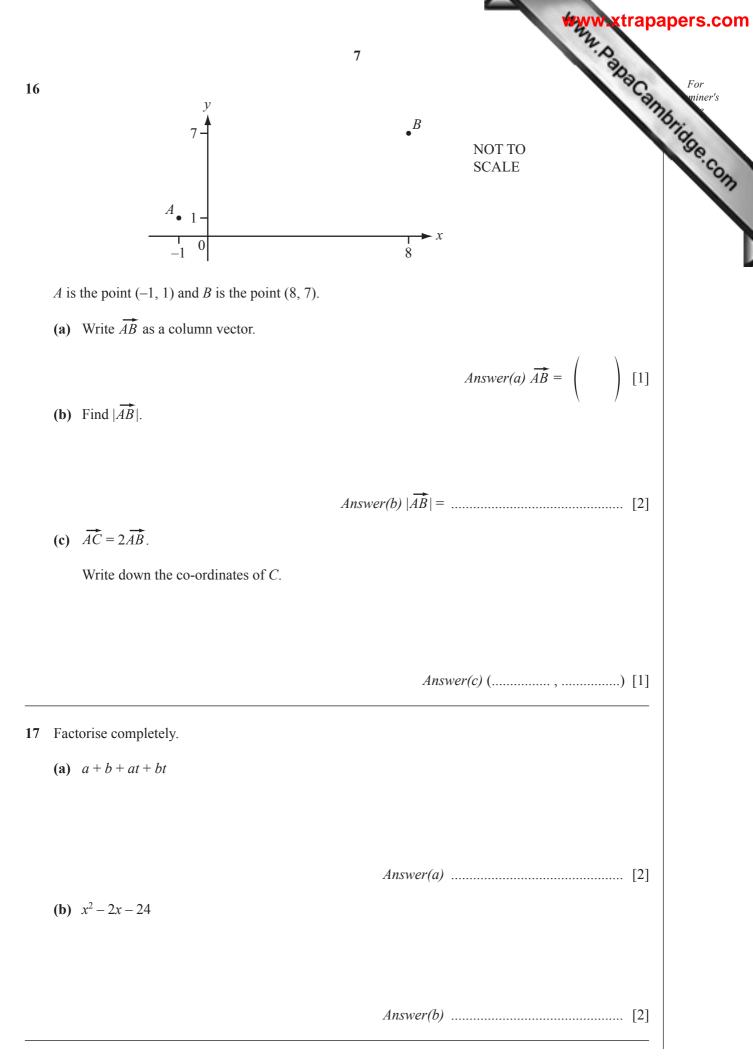






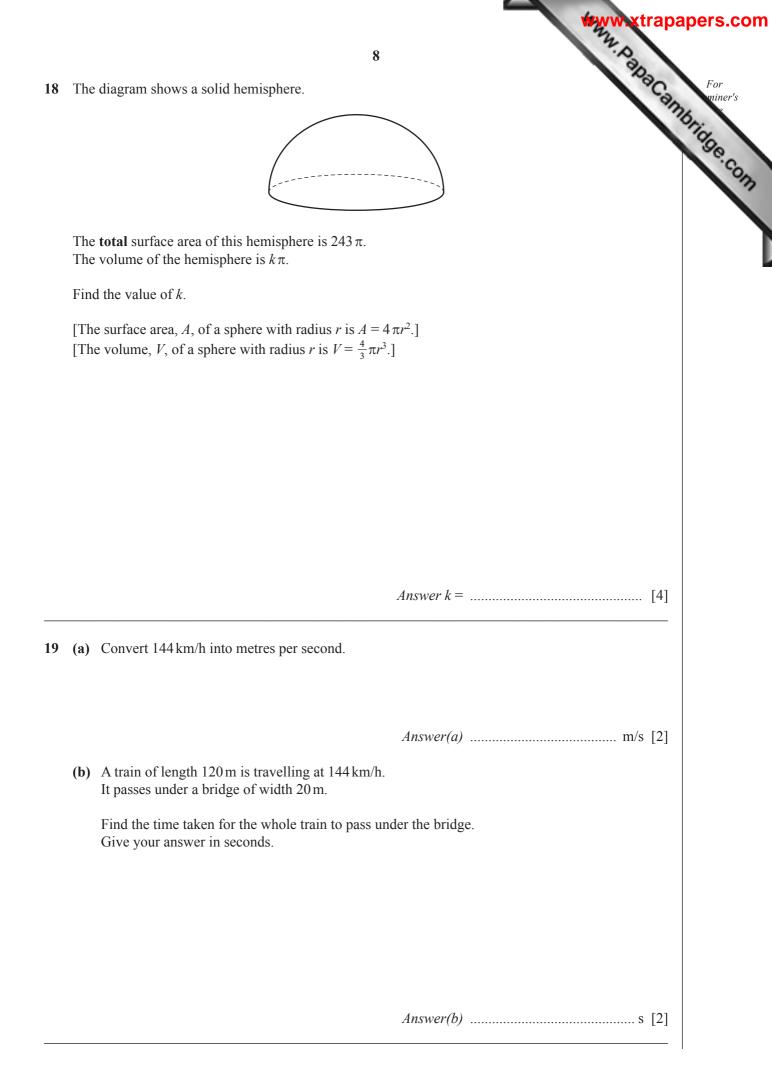
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### **PA CAMBRIDGE**

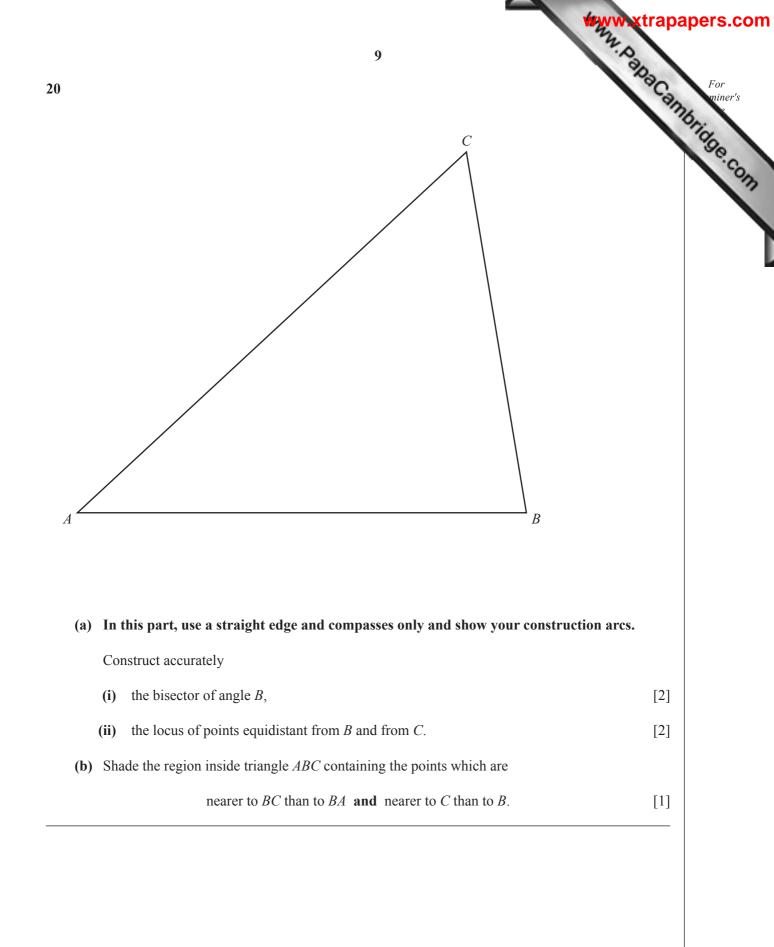


### PA CAMBRIDGE

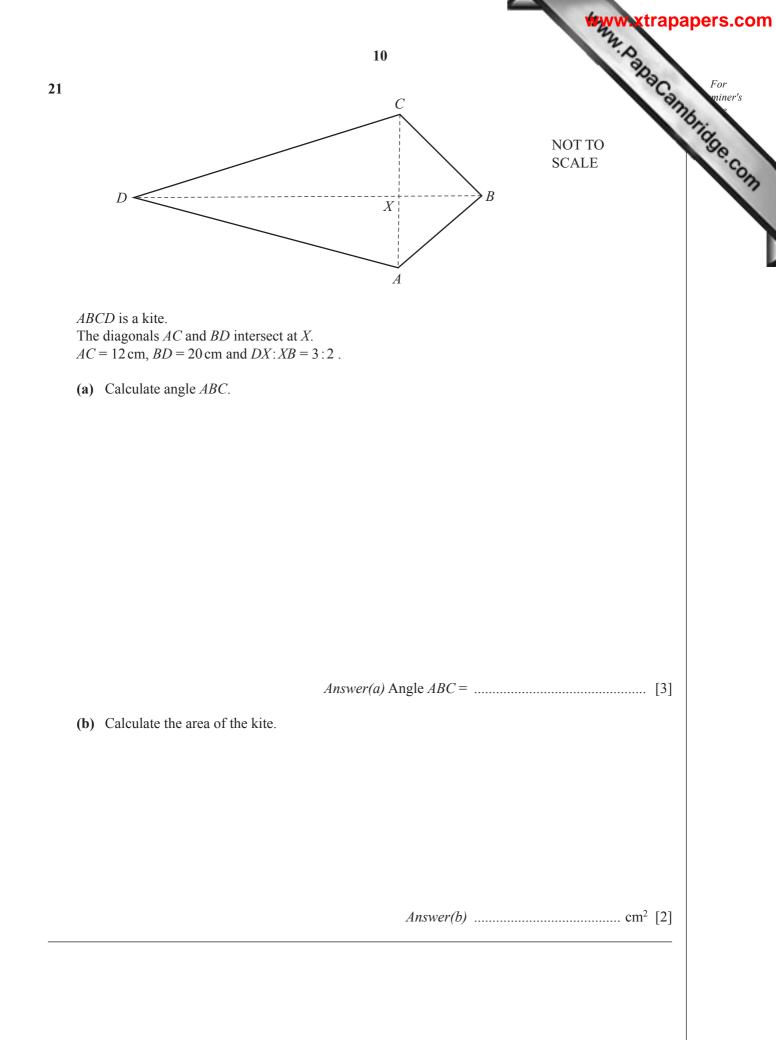
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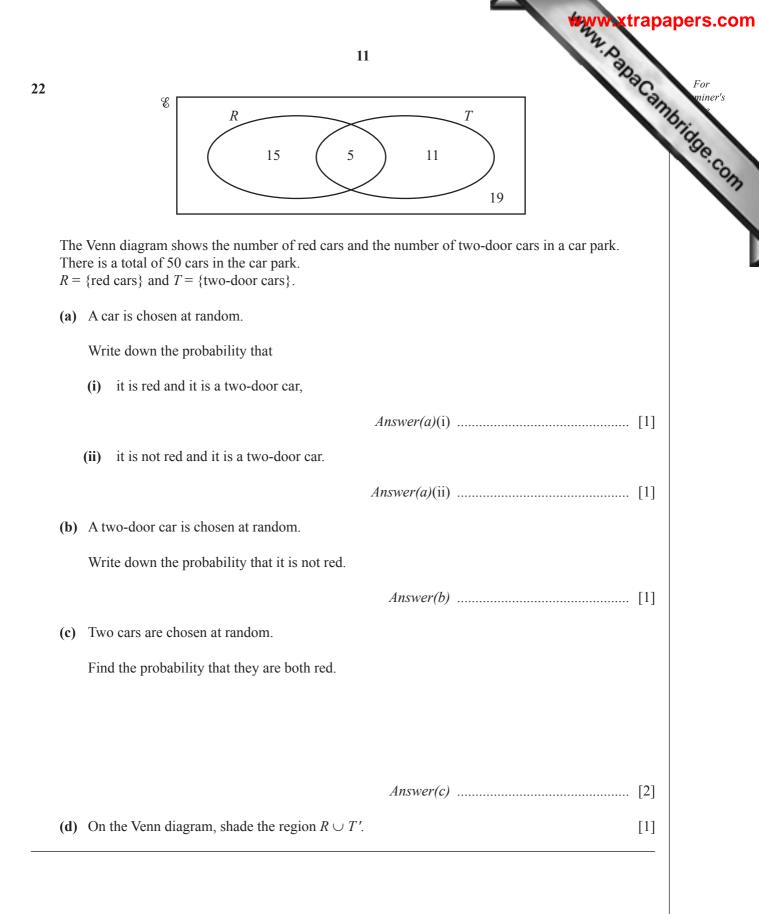


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