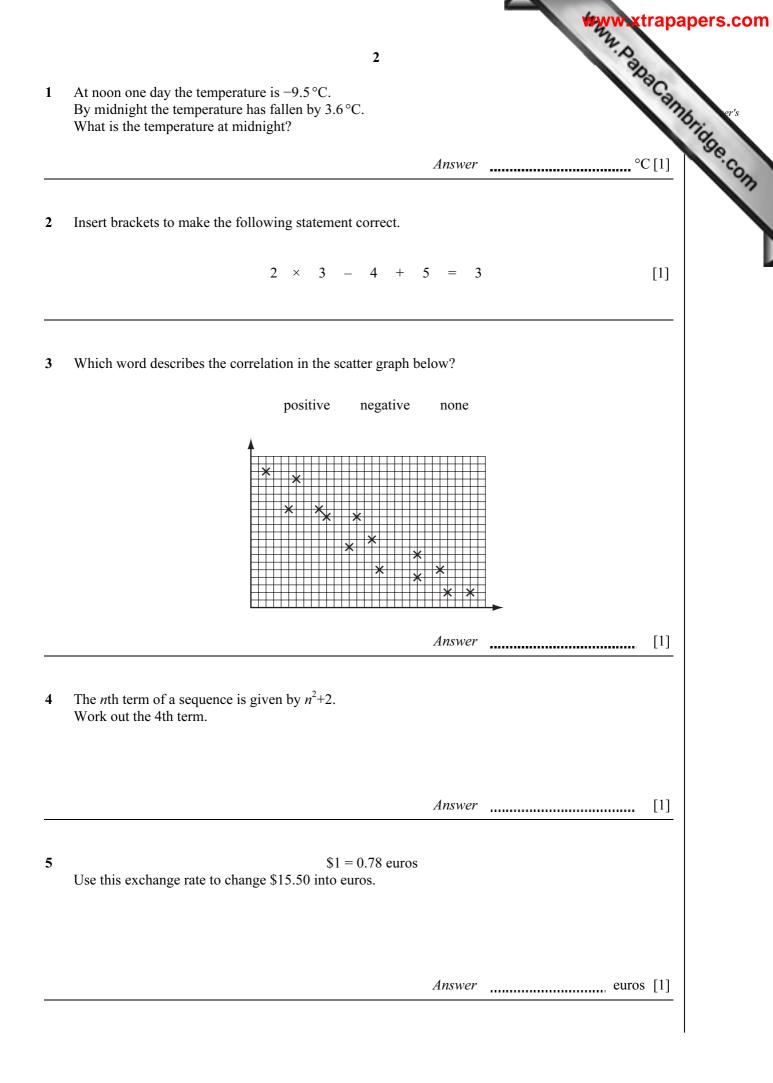
			XAMINATIONS Education		
		CAMBRIDGE INTERNATIONAL E	XAMINATIONS Education		
	MATHEMATICS				
	Paper 1 (Core)	0580/0	1 0581/01		
	Additional Materials:	Geometrical instruments October/November 2006 Mathematical tables (optional)			
		Tracing paper (optional)	1hour		
Candidate Name					
Centre Number		Candidate Number			
READ THES		ST			
Write your C	entre number, candidate	number and name on all the work you har	nd in.		
		spaces provided on the Question Paper.			
•	e a pencil for any diagrar				
	RITE IN THE BARCODE	ighters, glue or correction fluid.			
		AS BETWEEN THE PAGES.			
Answer all q		it must be shown below that must firm			
•		it must be shown below that question. kets [] at the end of each question or part	question		
	or marks is given in prac	wers [] at the end of each question of pan	For Examiner's Use		
The total of t	he marks for this paper i	s 56.			
Electronic ca	lculators should be used	1.			
If the degree	of accuracy is not speci	fied in the question, and if the answer is			
not exact, giv	ve the answer to three si	gnificant figures. Give answers in			
degrees to o	ne decimal place.				

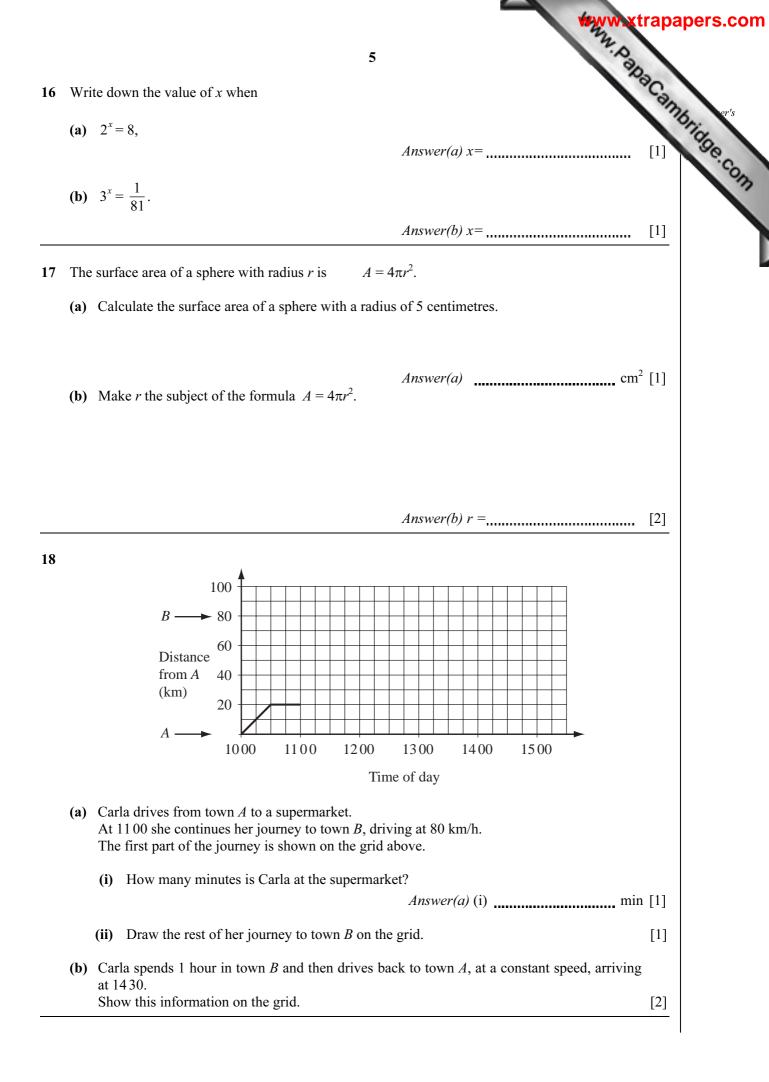
For π , use either your calculator value or 3.142.

This document consists of **8** printed pages.



		www.xtrapapers.com
	3	Answer [2]
6	Factorise completely $2a^2b - 6a$.	Cambrie or's
		133e.co.
		Answer [2]
7	(a) Change 56.1 metres into kilometres.	
		-
	(b) Change 15.3 metres into millimetres.	<i>Answer(a)</i> km [1]
		<i>Answer(b)</i> mm [1]
8	Simplify $3x^2y \times x^4y^2$.	
		<i>Answer</i> [2]
9	Work out 43 ³ , giving	
	(a) your full calculator display,	
		<i>Answer(a)</i> [1]
	(b) your answer correct to the nearest thousand.	
		Answer(b)
10	Write these fractions in order with the smallest first.	
	$\frac{33}{50}$ $\frac{2}{3}$ $\frac{6}{10}$	
	Answer	<[2]

		www.xtrapapers.com	
	4	Answer x =	
11	Solve the equation $5x - 2 = 10x - 8$.	Camb. er's	
		11gge	
		Answer $x = $ [2]	
10	Only two of the following five statements are compat		
12	Only two of the following five statements are correct. A $0.07077 \ge 0.07707$		
	B $0.07077 \neq 0.07707$		
	$ \begin{array}{c} \mathbf{C} & 0.07077 = 0.07707 \\ \mathbf{D} & 0.07077 < 0.07707 \\ \mathbf{D} & 0.07077 < 0.07707 \\ \end{array} $		
	E $0.07077 > 0.07707$	t statements	
	Write down the letters which correspond to the two correc		
	Answer	and [2]	
13	Work out $2.6 \times 10^{-3} + 9.1 \times 10^{-4}$. Write your answer in standard form.		
		Answer	
14	The length of a mirror is 15.6 centimetres correct to the nearest millimetre. Complete the statement below about the length of the mirror.		
	Answer	$cm \leq length $	
15	A truck uses 2.5 litres of fuel to travel 8 kilometres.		
	(a) How far will the truck travel on 1 litre of fuel?		
		<i>Answer(a)</i> km [1]	
	(b) How far will the truck travel on 120 litres of fuel?		
		Answer(b)	

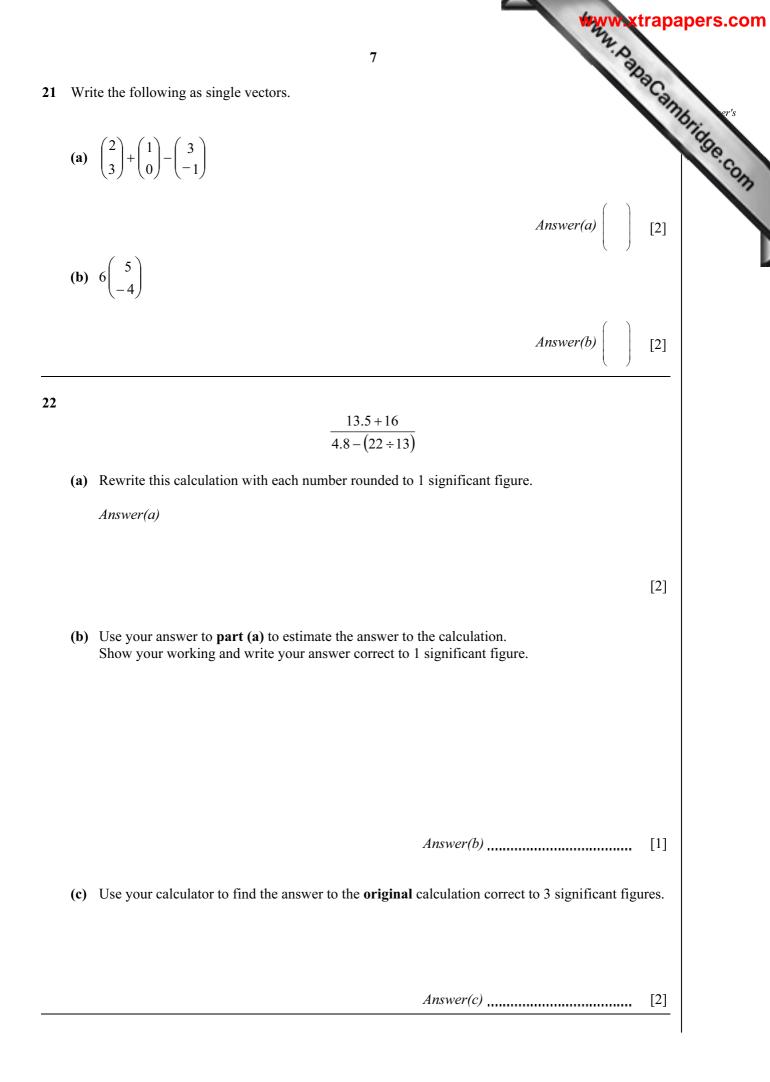


st 6 A shopkeeper buys some ready-made meals from a supplier. 19 (a) Complete the bill shown below. Cost of one meal Meal Number of meals Total cost \$3.48 \$ Chicken curry 15 Pizza \$2.99 28 \$ [1] (b) He sells all 15 Chicken curry meals for \$4.00 each. Work out the total profit on these meals. Answer(b) \$ [1] (c) He sells 15 Pizzas for \$3.55 each but is unable to sell the rest. Calculate his loss on the Pizzas as a percentage of the total cost of the Pizzas. *Answer(c)* %[2] (a) Draw the lines of symmetry on the two letters below. 20 Η [2] (b) Write down the order of rotational symmetry for each of the figures below.

Order

[2]

Order



23	8 The diagram shows a six-sided spinner.	S A	Cambridge com	
	(a) Amy spins a biased spinner and the probability sh	the gets a two is $\frac{5}{36}$.		
	Find the probability she			
	(i) does not get a two,			
		Answer(a) (i)	[1]	
	(ii) gets a seven,			
		Answer(a) (ii)	[1]	
	(iii) gets a number on the spinner less than 7.			
		Answer(a) (iii)	[1]	
	(b) Joel spins his blue spinner 99 times and gets a two Write down the relative frequency of getting a two			
		Answer(b)	[1]	
	(c) The relative frequency of getting a two with Piero's spinner is $\frac{21}{102}$.			
	Which of the three spinners, Amy's, Joel's or Pier	ro's, is most likely to give a two?		
		Answer(c)	[1]	

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