UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

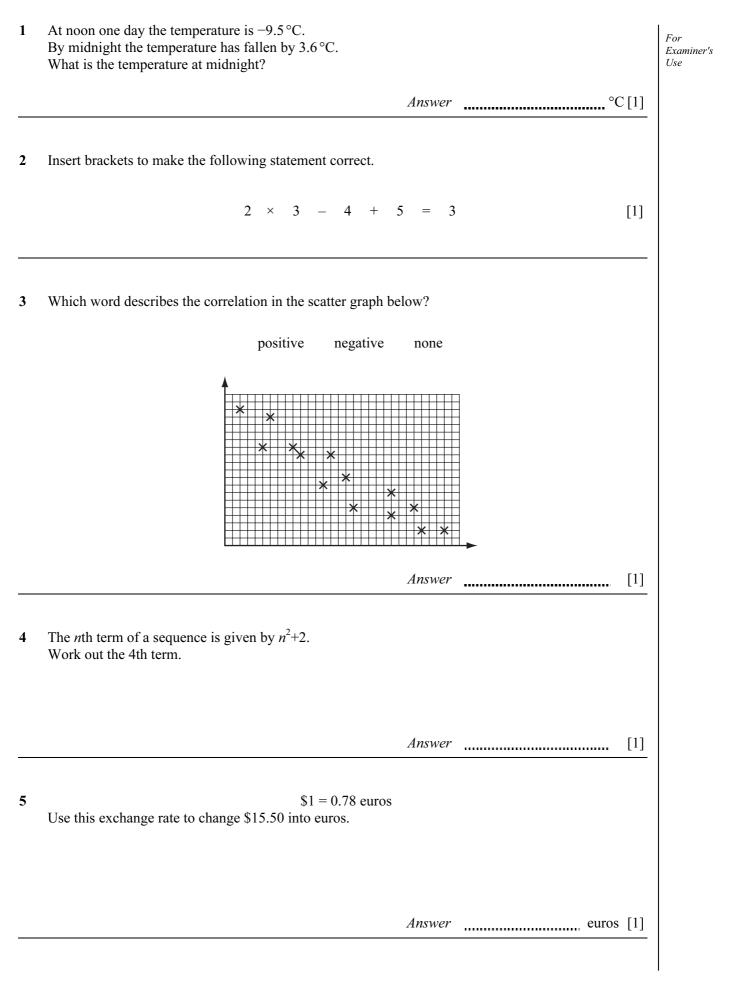
... __... _.... __... __...

	MATHEMATICS			
Paper 1 (Core)		0580/01 0581/01		
		n the Question Paper. Electronic calculator Geometrical instruments Mathematical tables (optional) Tracing paper (optional)		
Candidate Name				
Centre Number READ THES		Candidate Number		
Write in dark You may use Do not use si DO NOT WR	blue or black pen in th a pencil for any diagra taples, paper clips, hig NTE IN THE BARCOD	hlighters, glue or correction fluid.		
Answer all qu				
-	• •	n it must be shown below that question. ackets [] at the end of each question or part question.		
ine number	or marks is given in Dra	achers [] ar the end of each question of part question.		

For Examiner's UseThe total of the marks for this paper is 56.Electronic calculators should be used.If the degree of accuracy is not specified in the question, and if the answer isnot exact, give the answer to three significant figures. Give answers indegrees to one decimal place.For π , use either your calculator value or 3.142.

This document consists of 8 printed pages.

[Turn over

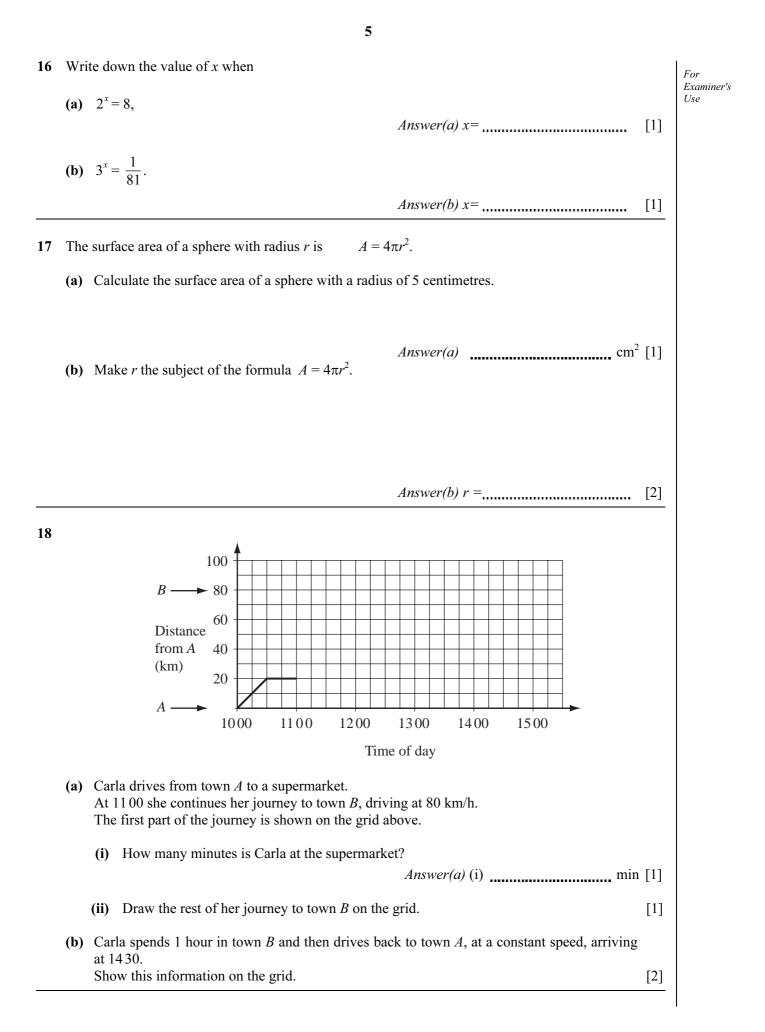


6	E	For Examine Use
	Answer [2]	
7	(a) Change 56.1 metres into kilometres.	
	(b) Change 15.3 metres into millimetres.	
	<i>Answer(b)</i> mm [1]	
8	Simplify $3x^2y \times x^4y^2$.	
	Answer	
9	Work out 43 ³ , giving	
	(a) your full calculator display,	
	(b) your answer correct to the nearest thousand. [1]	
	<i>Answer(b)</i> [1]	
10	Write these fractions in order with the smallest first.	
	$\frac{33}{50}$ $\frac{2}{3}$ $\frac{6}{10}$	
	Answer < [2]	

[Turn Over www.theallpapers.com

11 Solve the equation 5x - 2 = 10x - 8. For Examiner's Use [2] Answer x =12 Only two of the following five statements are correct. $0.07077 \ge 0.07707$ Α В $0.07077 \neq 0.07707$ С 0.07077 = 0.07707D 0.07077 < 0.07707E 0.07077 > 0.07707Write down the letters which correspond to the two correct statements. Answer and [2] **13** Work out $2.6 \times 10^{-3} + 9.1 \times 10^{-4}$. Write your answer in standard form. Answer [2] 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 _____ $cm \le length < ____ cm [2]$ 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? Answer(a) km [1] (b) How far will the truck travel on 120 litres of fuel? *Answer(b)* km [1]

4



- **19** A shopkeeper buys some ready-made meals from a supplier.
 - (a) Complete the bill shown below.

Meal	Cost of one meal	Number of meals	Total cost
Chicken curry	\$3.48	15	\$
Pizza	\$2.99	28	\$

- (b) He sells all 15 Chicken curry meals for \$4.00 each. Work out the total profit on these meals.

Answer(c) %[2]

For Examiner's

Use

[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.

Order

- **20** (a) Draw the lines of symmetry on the two letters below.
 - H W
 - (b) Write down the order of rotational symmetry for each of the figures below.
 - € X

Order

[2]

21 Write the following as single vectors.

- For Examiner's Use
- The diagram shows a six-sided spinner. (a) Amy spins a biased spinner and the probability she 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 17 times. Write down the relative frequency of getting a two with Joel's spinner. 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 Piero's, is most likely to give a two? Answer(c) [1]

23

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.