Centre Number	Candidate Number	Name	w. tu
( Inte	CAMBRIDGE INTER	NATIONAL EXAN	AINATIONS dary Education
MATHEMATI	cs		0580/01 0581/01
Paper 1			October/November 2003
Candidates answ	wer on the Question Pap	er.	Thour
Additional Mater	ials: Electronic calcula Geometrical instru Mathematical tab Tracing paper (op	itor uments les (optional) otional)	

## **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 in the spaces provided on the Question Paper. You may use a pencil for any diagrams or graphs. Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

If working is needed for any question it must be shown below that question.

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.

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.

	1	For Examiner's Us
If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.		
Stick your personal label here, if provided.		

## This document consists of 8 printed pages.

UNIVERSITY of CAMBRIDGE Local Examinations Syndicate

Write 0.4 kilograms in grams. 1 Answer......grams [1] The price of a book is \$18. Sara is given a discount of 15%. 2 Work out this discount. Answer \$..... [2] 3 Ν S U S А Susan writes the letters of her name on five cards. One of the five cards is chosen at random. Find the probability that the letter on the card is *Answer* (*a*)..... S, [1] **(a) (b)** E. Answer (b)..... [1] 4 A country has three political parties, the Reds, the Blues and the Greens.

The pie chart shows the proportion of the total vote that each party received in an election.







For



5

14	4 The temperatures at sunrise in Ber	ne on the seven days of one week were:
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Sunday	-1 °C
Monday	-7 °C
Tuesday	-6 °C
Wednesday	1 °C
Thursday	3 °C
Friday	0 °C
Saturday	-4 °C

(a)	(a) List the days on which the temperature at sunrise was less than $-3$ °C.				
	Answer (a)	[1]			

(b) Work out the mean (average) of the seven temperatures.

				Answer (b)°C	[3]
15	(a)	Wo	ork out each of the following as a decimal.		
		(i)	28%		
		(ii)	$\frac{275}{1000}$	Answer (a)(i)	[1]
		(iii)	$\frac{2}{7}$	Answer (a)(ii)	[1]
				Answer (a)(iii)	[1]
	(b)	Wr	ite 28%, $\frac{275}{1000}$ and $\frac{2}{7}$ in order of the size, so	mallest first.	
				Answer (b)	[1]

16





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18 The diagram below shows the graph of y = x^2 - 3x + 1.
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