MATHEMATICS Paper 1 (Core) Candidates answer on the Que Additional Materials: Electron Geomet Mathem	stion Paper. ic calculator rical instruments atical tables (optional)	-	MINATIONS ication 0580/01 0581/01 May/June 2004 1 hou	<b>I</b> 4
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Additional Materials: Electror Geomet Mathem	ic calculator rical instruments atical tables (optional)		1 hou	r
	paper (optional)			
Vrite your Centre number, candidat Vrite in dark blue or black pen in the You may use a pencil for any diagra to not use staples, paper clips, high answer <b>all</b> questions. If working is needed for any questio The number of marks is given in bra The total of the marks for this paper Electronic calculators should be use the degree of accuracy is not sp inswer to three significant figures. For $\pi$ , use either your calculator val	e spaces provided on the ms or graphs. lighters, glue or correction it must be shown below ckets [] at the end of ea is 56. d. ecified in the question, Give answers in degrees	Question Paper on fluid. that question. ch question or p and if the answ	r. part question. er is not exact, gi	ve the

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 <b>8</b> printed pages.
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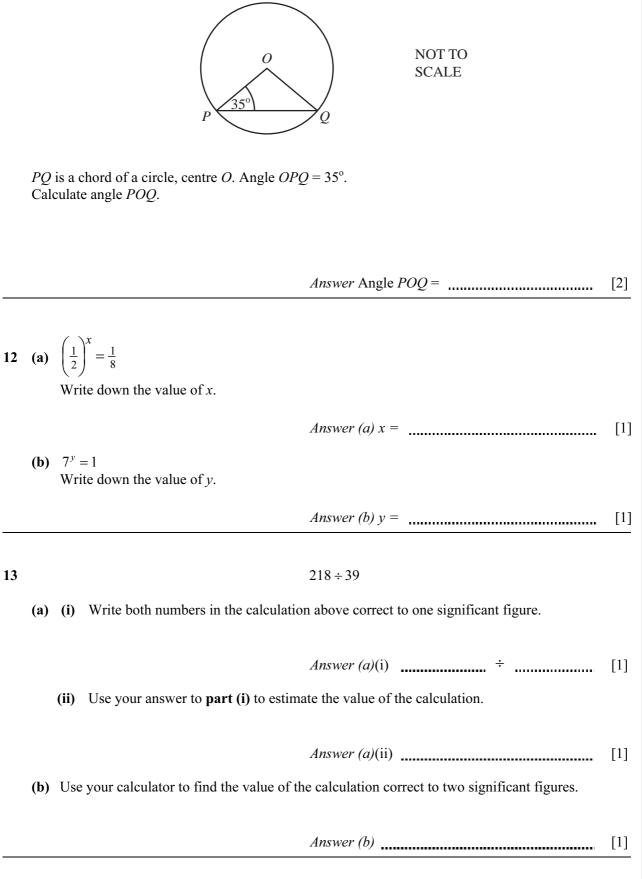
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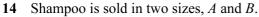
[Turn over

1	Work out $4^3 - 5^2$ .	
	Answer	[1]
	The Dead Sea shore is 395 metres <b>below</b> sea level. Hebron is 447 metres <b>above</b> sea level.	
	Find the difference in height.	
	Answer	[1]
•	Write as a fraction in its lowest terms	
	(a) 75%,	
	Answer (a)	[1]
	<b>(b)</b> 0.07.	
	Answer (b)	[1]
		[1]
1	Look at the numbers	
	21, 35, 49, 31, 24.	
	From this list write down	
	(a) a square number,	
		[1]
	Answer (a)	[1]
	(b) a prime number.	
	Answer (b)	[1]
_		
5	NOT TO	
	SCALE SCALE	
	A model of a car has a scale of 1:25. The model is 18 cm long.	
	A model of a car has a scale of 1:25. The model is 18 cm long. Calculate, in metres, the actual length of the car.	

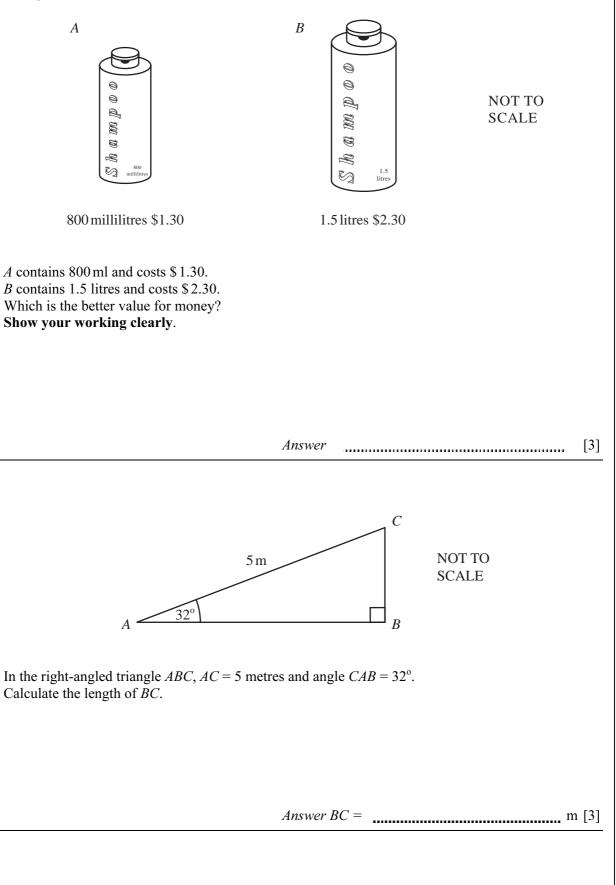
	3	For Examiner's
6	Without using a calculator, work out $2\frac{1}{4} \div \frac{1}{2}$ as a single fraction. Show all your working.	Use
	Answer [2]	
7	Sergio's height is 142 cm, to the nearest centimetre. Complete the statement about the limits of his height.	
	Answer $\operatorname{cm} \leq \operatorname{height} < \operatorname{cm} [2]$	
8	Factorise completely $4xy - 6xz$ .	
	Answer [2]	
9	Alix changed a traveller's cheque for 200 euros ( $\in$ ) into dollars (\$) when she visited the USA. The exchange rate was 1 dollar = 1.05 euros. How many dollars did she receive?	
	<i>Answer</i> \$ [2]	
10		
	For the shape shown, write down	
	(a) the number of lines of symmetry,	
	Answer (a) [1]	
	(b) the order of rotational symmetry.	
	Answer $(b)$ [1]	

11





15



16

(a) Find the value of y when a = -3, b = 2 and c = 8.

Answer (a) 
$$y =$$
 [2]

(b) Make *c* the subject of the formula.

Answer (b) $c =$	 [2]
	 L

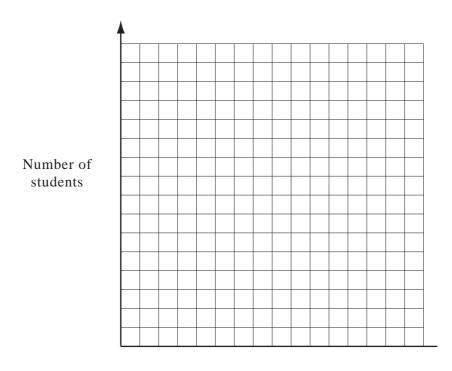
17 In a school, the number of students taking part in various sports is shown in the table below.

Sport	Number of students
Basketball	40
Soccer	55
Tennis	35
Volleyball	70

Draw a bar chart below to show this data.

Show your scale on the vertical axis and label the bars.

Answer



Sport

[4]

