

Cambridge IGCSE[™]

	CANDIDATE NAME				
	CENTRE NUMBER		CANDIDATE NUMBER		
*					
υ 4	CAMBRIDGE	INTERNATIONAL MATHEMATICS	0607/13		
ω	Paper 1 (Core)		October/November 2024		
			45 minutes		
073	You must answe	er on the question paper.			

You will need: Geometrical instruments

INSTRUCTIONS

- Answer all questions. •
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. •
- Write your name, centre number and candidate number in the boxes at the top of the page. •
- Write your answer to each question in the space provided.
- Do not use an erasable pen or correction fluid. •
- Do not write on any bar codes. •
- Calculators must not be used in this paper. •
- You may use tracing paper. •
- You must show all necessary working clearly and you will be given marks for correct methods even if • your answer is incorrect.
- All answers should be given in their simplest form.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [].

[Turn over



2

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, <i>A</i> , of circle, radius <i>r</i> .	$A = \pi r^2$
Circumference, <i>C</i> , of circle, radius <i>r</i> .	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A=2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Curved surface area, A , of sphere of radius r .	$A=4\pi r^2$
Volume, <i>V</i> , of prism, cross-sectional area <i>A</i> , length <i>l</i> .	V = Al
Volume, V , of pyramid, base area A , height h .	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

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	* 0000800000003 *	
	Answer all the questions.	
1	4 10 15 40 60	
	From the list of numbers, write down all the factors of 20.	
		[1
2	Complete the statement with the correct mathematical name.	
	In a circle, = $2 \times \text{radius}$.	[1
3	Write the number eighty million in figures.	
		٢1
		[1
4	This formula is used to find the cost to make a number of chairs.	
	cost in dollars = $5 \times$ number of chairs + 30	
	Work out the cost to make 10 chairs.	
	\$	[2
_		
5	The cost of one ticket for a show is \$7.50.	
	work out the cost of 50 tickets.	
	\$	[1]
6	Earis is collecting data about cars	
Ū	Write down an example of continuous data that Faris could collect	
		[1]
		[-]

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[Turn over





7 A box contains 25 centilitres of juice.

Work out the total amount of juice in 10 boxes. Give your answer in litres.

..... litres [2]

8 Write 85% as a fraction in its simplest form.



9 Complete the mapping diagram.



10 Sofia records the number of photos she takes each day during her two-week holiday.

18	17	9	12	25	8	21
20	22	9	13	17	9	10

Complete the stem-and-leaf diagram to show this information.





[2]

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Work out the total surface area of the cuboid.

12 Zara asks 20 people how many times they buy fuel for their car during a two-week period. The table shows this information.

Number of times	1	2	3	4
Frequency	4	5	8	3

(a) Find the mode.

......[1]

(b) Find the mean.

.....[2]

13 Write down all the integer values of *x* that satisfy this inequality.

 $-1 \leq x < 2$



Pia cycles from Q on a bearing of 260°. 15

Draw a line to show the direction of Pia's route.





[1]
ger.
<i>k</i> =

.....[3]

Questions 20 and 21 are printed on the next page.

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20 Find the gradient of the line 5y = 3x + 20.

- 21 100 students take a biology test. The cumulative frequency curve shows the results.



8

(a) Use the curve to estimate the median mark.

-[1]
- (b) Find how many students gained more than 35 marks.

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[1]

^{......[2]}

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