

Cambridge IGCSE[™] (9–1)

CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
MATHEMATI	CS	0980/01
Paper 1 Non-ca	alculator (Core)	For examination from 2025
SPECIMEN PA	PER B	1 hour 30 minutes
You must answ	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.

INFORMATION

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [].

This document has **16** pages.

List of formulas

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A , of circle of radius r .	$A = \pi r^2$
Circumference, C , of circle of radius r .	$C = 2\pi r$
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 .	$A = \pi r l$
Surface area, A , of sphere of radius r .	$A = 4\pi r^2$
Volume, V , of prism, cross-sectional area A , length l .	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 .	$V = \frac{4}{3}\pi r^3$

			Calcu	lators m	ust not b	e used in	this pap	ber.		
	3	4	10	23	25	27	37	120	130	
From thi	s list, wr	ite dow	n							
(a) a m	ultiple o	f 30								
(b) a fa	ctor of 5	0 that is	a square	e number						[1]
										[1]
(c) a co	ommon f	actor of	12 and 2	20						
										[1]
(d) a pr	rime num	nber betv	ween 20	and 30.						
										[1]
Find the	reciproc	al of 0.5	5.							

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He spends 36% of the money and gives 22% of the money to his friend.

Find the percentage of the money that Sam has left.

On the grid, draw the image of the trapezium after a reflection in line L.

The grid shows a trapezium and a line *L*.

Sam has some money.

3

4

.....%[2]



[1]

- 5 Here is some information about five positive integers.
 - The median is 7.
 - The mode is 13.
 - The range is 10.
 - They add up to 40.

Find the five integers.

6 (a) Write down the value of the 5 in the number 1252800.

(b) Write 72.5796 correct to 3 decimal places.

......[1]

(c) $0.28 \times 9.6 = 2.688$

Use this information to find the value of 28×9.6 .

0980/01B/SP/25

......[1]

T = 2a - 3b

7

Find the value of T when a = 12 and b = 5.

- 8 Lee sells books and magazines.
 - (a) He records the number of books he sells to each of 16 people.

1	2	0	4	2	2	3	0
0	3	4	0	5	2	0	3

(i) Complete the table. The first row has been completed for you.

Number of books	Tally	Frequency
0	₩	5
1		
2		
3		
4		
5		

(ii) Use your table to complete the bar chart.



[3]

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(b) Lee records the number of magazines he sells to each of 20 people. The results are shown in the table.

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

(i) Work out the mean.

		[3]
(ii)	Lee says 'The mode is 8.'	
	Explain why Lee is wrong.	
		[1]

9 (a) Convert 600 m into km.

......km [1]

(b) Convert 3 m^2 into cm^2 .

......cm² [1]

10 Represent the inequality x > -2 on the number line.



Shirts cost \$28.40 each.Scarves cost \$5.25 each.Anna buys 6 shirts and 4 scarves.

By writing the cost of each item correct to 1 significant figure, work out an estimate for the amount Anna pays.

\$.....[2]

12 Work out.

 $-8 \times 2 + 3$

13 Find the value of

(a) 5⁻¹

......[1]

(b) $(\sqrt{16})^3$.

......[2]



y = because[2]

(c) Find the value of z.

С NOT TO SCALE v° x° z°

The diagram shows a parallelogram and a trapezium. The parallelogram and the trapezium are joined along a common side.

(a) Find the value of x.

15 (a) Complete the table of values for $y = \frac{30}{x}$.

x	-4	-3	-2	-1	1	2	3	4
У	-7.5							7.5

(b) On the grid, draw the graph of $y = \frac{30}{x}$ for $-4 \le x \le -1$ and $1 \le x \le 4$.



[4]

[3]

(c) Write down the order of rotational symmetry of the graph.

......[1]

[1]

(d) (i) On the grid, draw the line
$$y = 25$$
.

(ii) Use your graph to solve
$$\frac{30}{x} = 25$$
.

16 The diagram shows a trapezium.



The area of the trapezium is 60 cm^2 .

Find the value of *h*.

17 (a) The diagram shows a triangular prism.



On the 1 cm^2 grid, complete a net of the triangular prism. Two faces have been drawn for you.



(b) Work out the volume of this triangular prism. Give the units of your answer.

......[4]

(b) Work out.

$$3\frac{2}{3} - 1\frac{2}{5}$$

Give your answer as a mixed number in its simplest form.

......[3]

19 Work out.

 4000×70

Give your answer in standard form.



The diagram shows a solid cone with a radius of 4 cm. The **total** surface area of the cone is 56π cm².

Work out the length, l, of the sloping edge of the cone.

l = cm [3]

21 Expand and simplify.

(y-6)(y+5)

......[2]

22 (a) $8^3 \times 8^b = 8^{12}$

Find the value of *b*.

(b) Simplify.

$$8x^5y^4 \div 2x^{-7}y^3$$





Triangle ABC is mathematically similar to triangle FGH.

Work out the value of *x*.

24 In this question, all measurements are in centimetres.

The diagram shows a quadrilateral.



The perimeter of the quadrilateral is 26 cm.

Write down an equation and solve it to find the value of x.

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