CAMBRIDGE
International Education

# Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

*9135939327*

**CAMBRIDGE INTERNATIONAL MATHEMATICS** **0607/12**

Paper 1 Non-calculator (Core) **February/March 2026**

**1 hour 15 minutes**

You must answer 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. Do **not** use correction fluid or tape.
- 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. You will be given marks for correct methods even if your answer is incorrect.

**INFORMATION**

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **16** pages. Any blank pages are indicated.


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## 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 $l$. | $A = \pi rl$ |
| 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 $r$. | $V = \frac{4}{3}\pi r^3$ |

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Calculators must **not** be used in this paper.

**1** This is a list of numbers.

20 21 22 23 24 25 26 27 28

From the list, write down

**(a)** the square number

..... [1]

**(b)** the multiple of 8

..... [1]

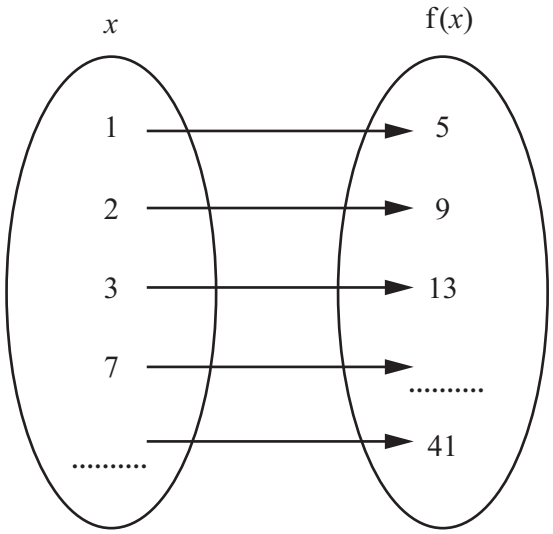
**(c)** the cube number

..... [1]

**(d)** the prime number.

..... [1]

**2** Complete the mapping diagram.

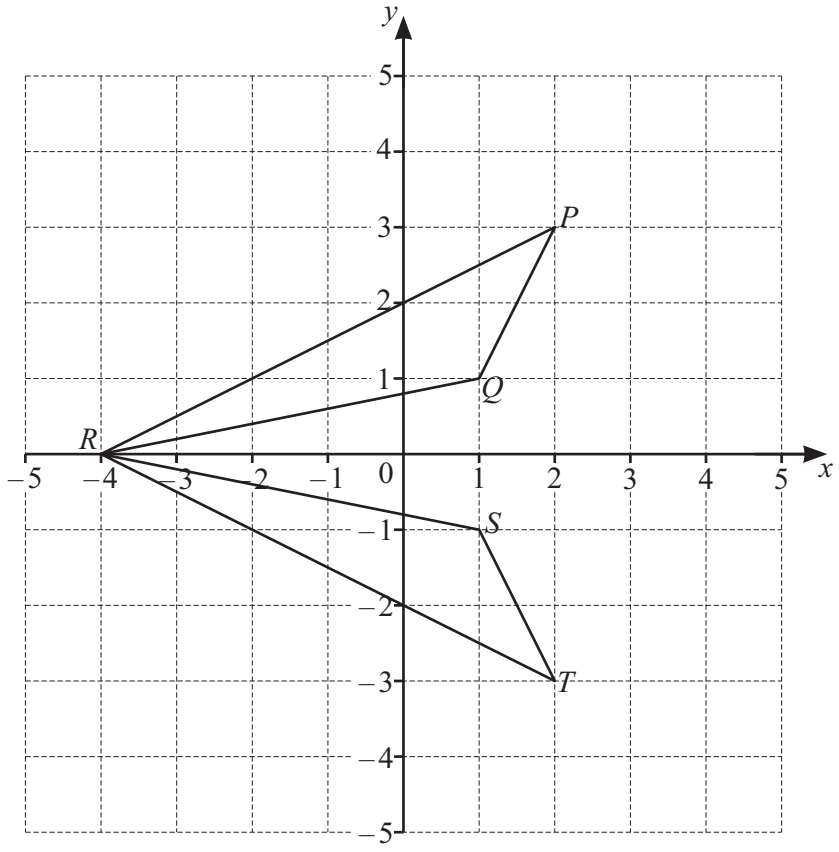



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**3** The diagram shows triangle *PQR* and triangle *TSR* drawn on a grid.




**(a)** Write down the coordinates of point *S*.

(..... , .....) [1]

**(b)** Complete the statement.

The *x*-coordinate of point *P* is 6 more than the *x*-coordinate of point ..... [1]

**(c)** Describe fully the **single** transformation that maps triangle *PQR* onto triangle *TSR*.

.....

..... [2]

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**4** $y = 2x - 13$

**(a)** Find the value of $y$ when $x = 8$.

$y =$ ..... [1]

**(b)** Find the value of $x$ when $y = 15$.

$x =$ ..... [2]

**5** Work out.

**(a)** $14 - 3 \times 2$

..... [1]

**(b)** $\sqrt{81}$

..... [1]

**(c)** $-8 \times 0.2$

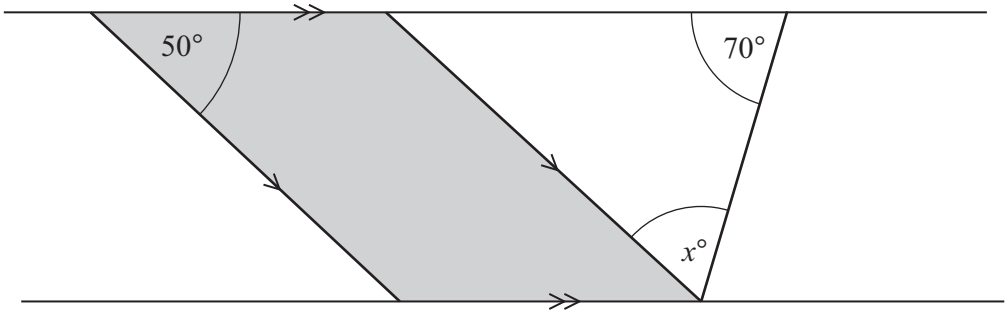
..... [1]

**(d)** $2\frac{1}{5} - 1\frac{2}{3}$

..... [3]

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**6** The diagram shows 5 straight lines.
There are two sets of parallel lines.




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**(a)** Write down the mathematical name of the shaded quadrilateral.

..... [1]

**(b)** Find the value of $x$.

$x =$ ..... [2]

**7** Simplify.

**(a)** $5m - 2 - 2m + 3$

..... [2]

**(b)** $\frac{2k}{k}$

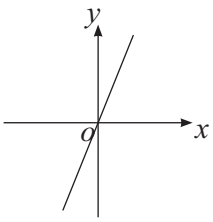
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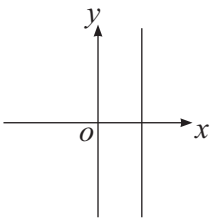
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**8** **(a)** Diagrams A, B, C and D each show a straight-line graph.

A

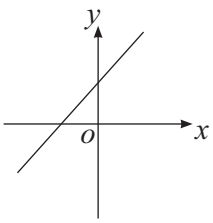



B

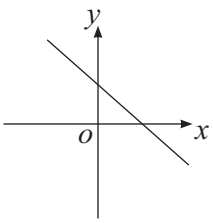



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C




D




Write down the letter of the diagram which shows the line with equation

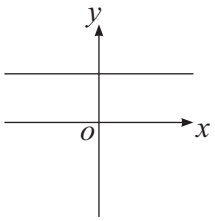
**(i)** $y = 2x$

..... [1]

**(ii)** $y = 2 - x$.

..... [1]

**(b)** The diagram below shows another straight-line graph.



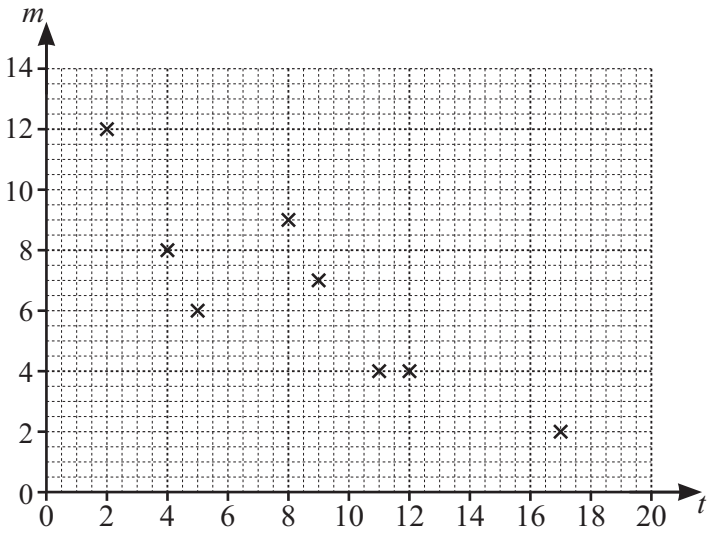

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Give a reason why the equation of this line is not $x = 5$.

..... [1]

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**9** The scatter diagram shows points connecting values of $t$ and values of $m$.




**(a)** Write down the type of correlation shown in the scatter diagram.

..... [1]

**(b)** The mean value of $t$ is 8.5 and the mean value of $m$ is 6.5 .

Plot the mean point and draw a line of best fit. [2]

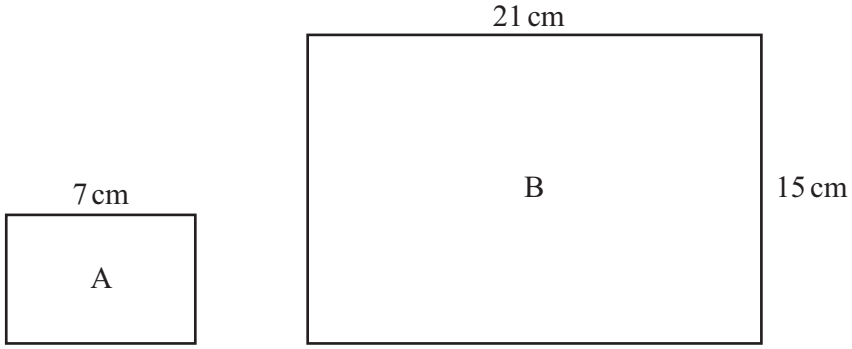
**(c)** Use your line of best fit to estimate the value of $t$ when $m = 5$.

$t =$ ..... [1]

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**10**




Rectangle A and rectangle B are mathematically similar.

Find the perimeter of rectangle A.

..... cm [3]

**11** A car travels at a speed of 90 km / h for 1 hour 20 min.

Work out the distance the car travels.

..... km [2]

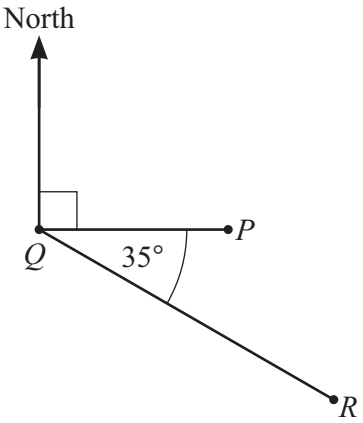
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**12** A cylinder has height 6 cm.
The curved surface area of the cylinder is $48\pi$ cm$^2$.

Find the radius of the cylinder.

..... cm [2]

**13**




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Find the bearing of

**(a)** $P$ from $Q$

..... [1]

**(b)** $Q$ from $R$.

..... [2]

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**14** $A = \{3, 5, 7, 9, 11, 13\}$

$B = \{5, 8, 11, 14\}$

**(a)** List the elements of $A \cap B$.

..... [1]

**(b)** Find $n(A \cup B)$.

..... [1]

**15** Write each number in standard form.

**(a)** 671 000 000

..... [1]

**(b)** 0.033

..... [1]

**16** Find the highest common factor (HCF) of 42 and 54.

..... [2]

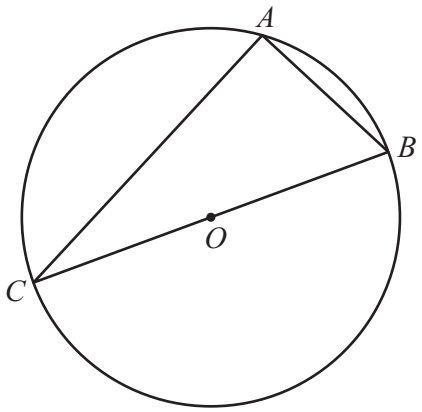
**17** By writing each number correct to 1 significant figure, find an estimate of

$$\frac{5.1 \times 19.5}{6.9 - 3.3}.$$

..... [2]

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**18** The diagram shows a circle with centre $O$.




Points $A$, $B$ and $C$ lie on the circle.

**(a)** Write down the mathematical name for the straight line $COB$.

..... [1]

**(b)** Find angle $CAB$.
Give a geometrical reason for your answer.

Angle $CAB$ = ..... because .....

..... [1]

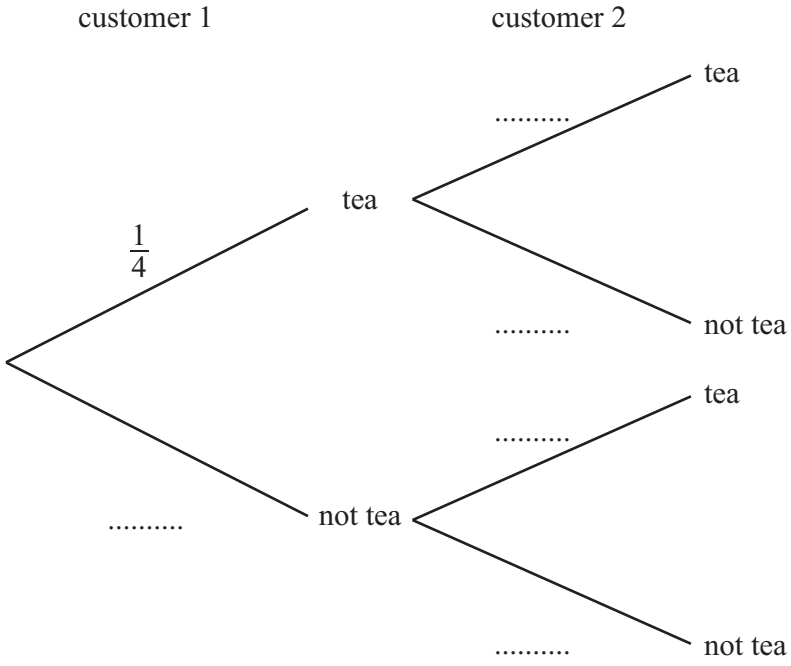
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**19** In a café, the probability that a customer buys a cup of tea is $\frac{1}{4}$.

2 customers in the café are chosen at random.

**(a)** Complete the tree diagram.




[2]

**(b)** Work out the probability that the 2 customers each buy a cup of tea.

..... [2]

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**20** Solve the simultaneous equations.

$$3x + 4y = 13$$
$$2x - 5y = 1$$

$x =$ .....

$y =$ .....

[4]

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