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CAMBRIDGE
International Education

Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

4688698196 8

CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/33**

Paper 3 Calculator (Core) **May/June 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.
- You should use a graphic display calculator where appropriate.
- You may use tracing paper.
- You must show all necessary working clearly. You will be given marks for correct methods, including sketches, even if your answer is incorrect.
- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place for angles in degrees, unless a different level of accuracy is specified in the question.
- For π, use either your calculator value or 3.142.

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 **12** pages.

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[Turn over

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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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1 **(a)** Write 45 193 correct to the nearest hundred.

..... [1]

(b) Write the number fifty-five thousand two hundred in figures.

..... [1]

(c) Write down the place value of 3 in the number 234 100.

..... [1]

2 Change 2.7 hours into minutes.

..... min [1]

3 Write these lengths in order of size starting with the smallest.

8000 cm 9 m 7.5 m 600 cm

.....<.....<.....<..... [2]
smallest

4 Daniel's journey to work takes 1 hour and 35 minutes.
Daniel leaves home at 07 40.

Find the time Daniel arrives at work.

..... [1]

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5 Samir rolls a fair six-sided die numbered 1 to 6.
The probability of event A is $\frac{5}{6}$.

Tick (✓) the one statement that could describe event A.

statement	
The number rolled is less than 5.	
The number rolled is prime.	
The number rolled is greater than 1.	
The number rolled is even.	

[1]

6 Gina uses 866 units of electricity.
For the first 140 units, Gina pays 23 cents for each unit.
For the remaining units, she pays 19.5 cents for each unit.

Work out how much Gina pays for these 866 units of electricity.
Give your answer in dollars ($).

$ ..... [3]

7 Work out.

(a) $\sqrt[3]{2197}$

..... [1]

(b) $\frac{1.5^2 - 0.25}{0.4}$

..... [1]

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8 **(a)** Write 0.17 as a fraction.

..... [1]

(b) Write down the reciprocal of $\frac{5}{16}$.

..... [1]

9 The number of broken biscuits in each of 13 boxes of biscuits is counted.
These are the results.

1	5	13	17	18	10	2
12	1	1	16	7	4	

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

0	
1	

key ..... | ..... = ... [3]

(b) Find the upper quartile.

..... [1]

(c) One of these boxes of biscuits is chosen at random.

Write down the probability that it contains 12 or more broken biscuits.

..... [1]

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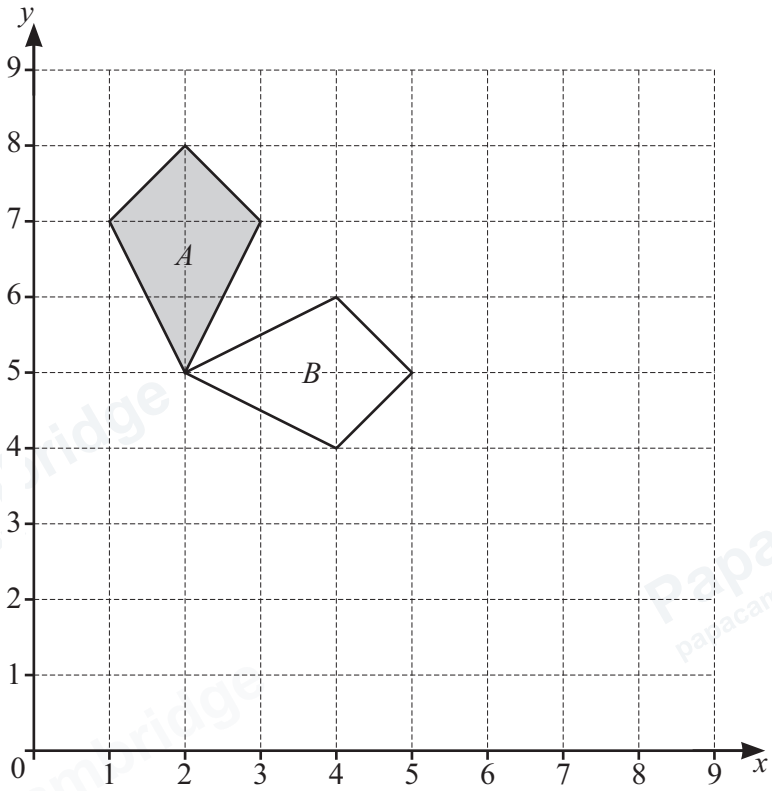
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10 Solve the equation.

$$5x - 2 = 7$$

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

11 The diagram shows 2 quadrilaterals drawn on a square grid.



(a) Write down the mathematical name of quadrilateral A.

..... [1]

(b) Reflect quadrilateral A in the line $y = 4$. [2]

(c) Describe fully the **single** transformation that maps quadrilateral A onto quadrilateral B.

.....

..... [3]

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12 These are the first four terms of a sequence.

1.5 4 6.5 9

(a) Write down the term-to-term rule for the sequence.

..... [1]

(b) Find the nth term of the sequence.

..... [2]

13 Kamel uses this formula for the number of cups of water, w, needed to cook rice.

$w = 1.5r + 0.5$ where r is the number of cups of rice.

(a) Work out the number of cups of water Kamel needs to cook 3 cups of rice.

..... [1]

(b) Kamel uses 11 cups of water.

Work out the number of cups of rice Kamel cooks.

..... [2]

(c) Rearrange the formula $w = 1.5r + 0.5$ to make r the subject.

$r =$ ..... [2]

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14 Mina buys a car for \$13 500.
On the same day, Mina buys a painting for \$9000.

(a) At the end of 1 year the value of the car has decreased by 18%.

Work out the value of the car at the end of 1 year.

\$ ..... [2]

(b) The value of the painting at the end of 1 year is the same as the value of the car at the end of 1 year.

Work out the percentage increase in the value of the painting.

..... % [2]

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15 **(a)** Write 0.000 017 in standard form.

..... [1]

(b) $(a \times 10^n)$ represents a number written in standard form.

Complete the inequality.

..... $\leqslant a <$ ..... [1]

(c) $(2.3 \times 10^x) \times (6.1 \times 10^7) = (1.403 \times 10^{-5})$.

Find the value of x.

$x =$ ..... [1]

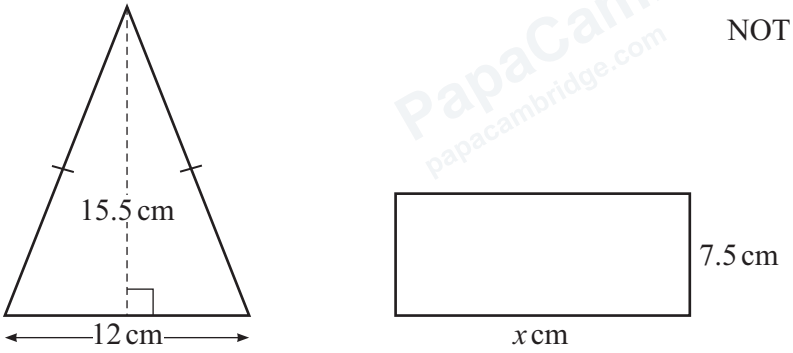
16 Find the lowest common multiple (LCM) of 35 and 42.

..... [2]

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17 The diagram shows an isosceles triangle and a rectangle.



The isosceles triangle and the rectangle have the same area.

Work out the value of x.

$x =$ ..... [3]

18 The exterior angle of a regular polygon is 24°.

Find the number of sides of this polygon.

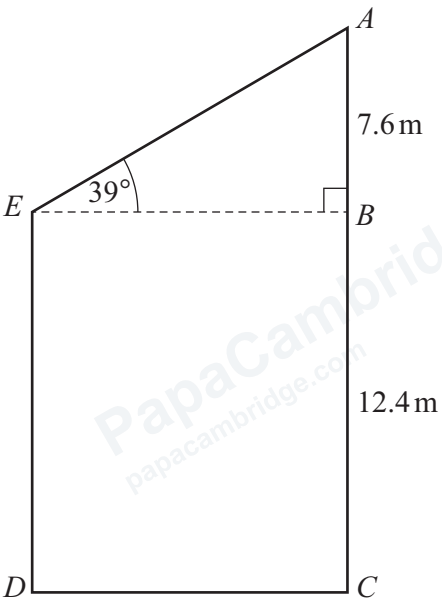
..... [1]

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19 The diagram shows the trapezium *ACDE*.



NOT TO SCALE

B lies on *AC* and angle *ABE* is 90°.
BCDE is a rectangle.

Angle *AEB* = 39°.
AB = 7.6 m and *BC* = 12.4 m.

Work out the perimeter of trapezium *ACDE*.

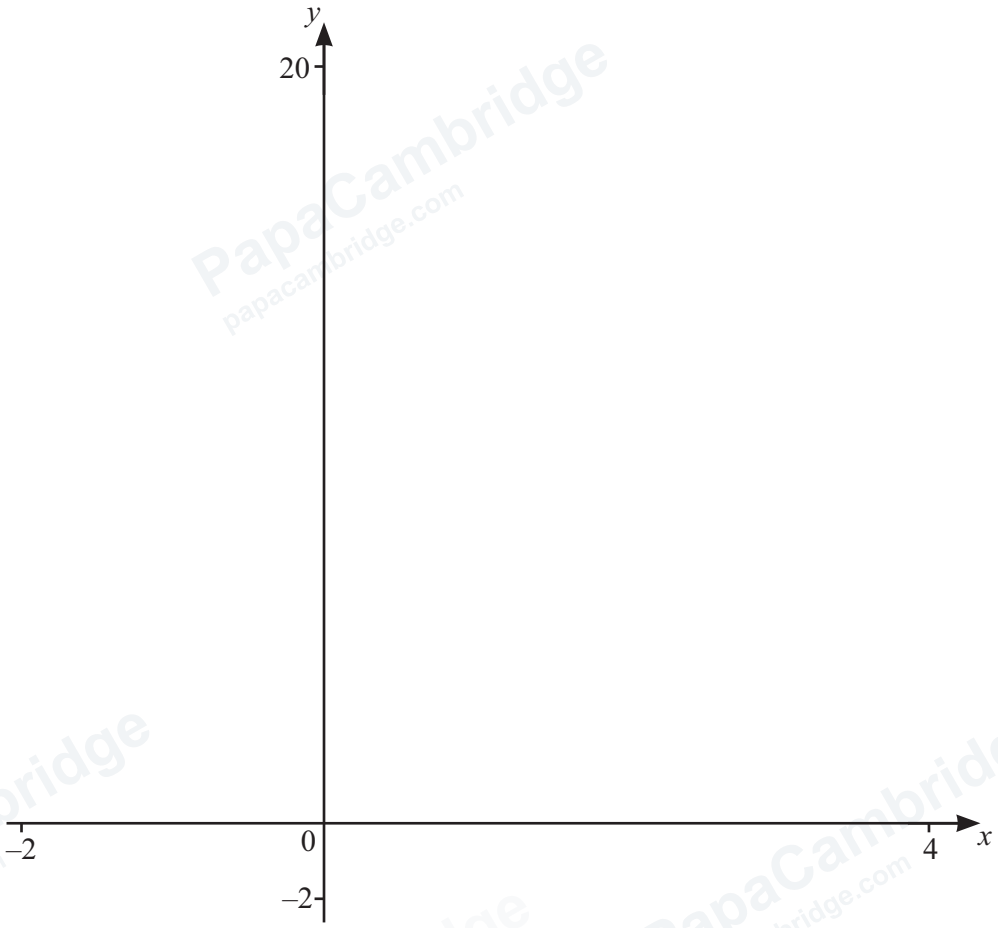
..... m [6]

Question 20 is on the back page.

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20



(a) On the diagram, sketch the graph $y = x^2 - 4x + 3$ for values of x between -2 and 4. [2]

(b) Write down the zeros of $y = x^2 - 4x + 3$.

$x =$ ..... and $x =$ ..... [1]

(c) Write down the equation of the line of symmetry of $y = x^2 - 4x + 3$.

..... [1]

(d) Write down the coordinates of the local minimum.

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

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