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CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/32**

Paper 3 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.
- 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. 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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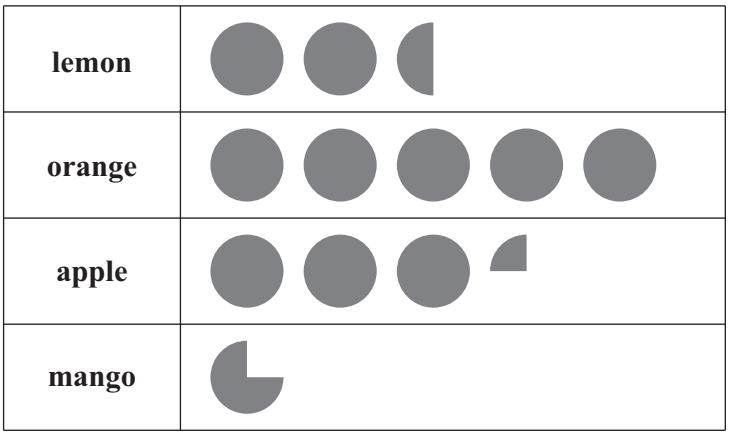
1 The pictogram shows the numbers of different types of drink sold by a shop one lunchtime.



key = 4 drinks

(a) Work out the total number of drinks sold.

..... [1]

(b) Work out the difference between the number of apple drinks sold and the number of mango drinks sold.

..... [1]

2 A book costs $6.72 .

(a) Work out the cost of 5 of these books.

$ ..... [1]

(b) Work out the greatest number of these books that can be bought with $100.

..... [2]

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3 Complete the statement using one of < , > or = .

-6^2 ..... $(-6)^2$

[1]

4 **(a)** Write $\frac{4}{5}$, 82% and 0.78 in order of size, starting with the smallest.

..... , ... , ... [1]
smallest

(b) Write \$93 as a percentage of \$150.

.....% [1]

(c) Find 3% of 1800 g.

..... g [1]

5 Solve.

$x + 5 = 13$

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

6 Kaya watches 25 minutes of a film.
This is $\frac{5}{26}$ of the film.

Work out how long the whole film lasts.
Give your answer in hours and minutes.

..... h ..... min [3]

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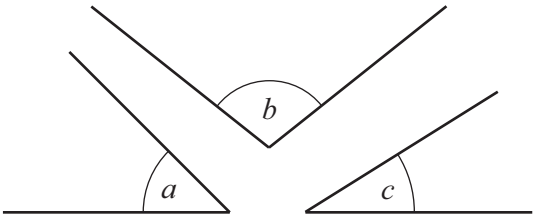
7 The diagram shows three angles a, b and c.



NOT TO SCALE

(a) Write down the mathematical name for an angle of 56°.

..... [1]

(b) Angle $a = 56°$.

(i) The ratio $a : b : c = 4 : 7 : 2$.

Work out the size of angle b and the size of angle c.

$b =$ .....

$c =$ .....

[3]

(ii) Give a geometrical reason why angles a, b and c cannot be joined to form a straight line.

..... [1]

8 **(a)** Factorise.

$8x + 12$

..... [1]

(b) Expand.

$3x(5x^2 - 2)$

..... [2]

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9 Work out.

(a) $\sqrt{0.09} + 5.7$

..... [1]

(b) 1.5^0

..... [1]

(c) $(3^2)^4$

..... [1]

(d) $(2.5 \times 10^{-12}) - (7.6 \times 10^{-13})$

..... [1]

10 A circle has circumference 58 cm.

Work out the area of the circle.

..... cm^2 [3]

11 Make x the subject of the formula.

$$9y + 16x = 48$$

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

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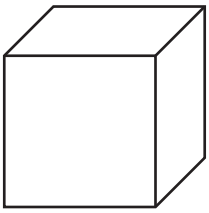
12 The diagram shows a cube.



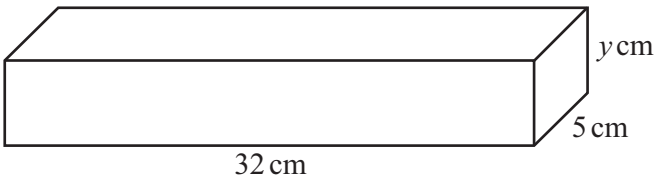
NOT TO SCALE

(a) The total surface area of the cube is $384\,cm^2$.

Show that the volume of the cube is $512\,cm^3$.

[3]

(b)



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The cuboid has length 32 cm, width 5 cm and height y cm.
The cuboid has the same volume as the cube.

Work out the value of y.

$y =$ ..... [2]

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13 The price of a ticket is $175.
The price is reduced by 12%.

Work out the new price of the ticket.

$ ..... [2]

14 This is a list of the times, in seconds, for 8 boys to swim 50 metres.

43.9 30.6 31.3 49.8 46.4 39.7 52.3 44.8

(a) Work out the mean.

..... seconds [1]

(b) Work out the range.

..... seconds [1]

(c) The table shows a summary of the times, in seconds, for 8 girls to swim 50 metres.

mean	37.25
range	26.3

Make two comparisons between the swimming times of the boys and of the girls.

1 .....

.....

2 .....

.....
[2]

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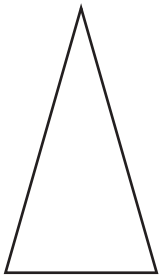
15 **(a)** The diagram shows an isosceles triangle.



Draw any lines of symmetry on the triangle. [1]

(b) This pattern is drawn using 10 identical squares and 5 identical isosceles triangles.



(i) Write down the order of rotational symmetry of the pattern.

..... [1]

(ii) The total shaded area of the pattern is 231cm^2.
Each square has side length 3 cm.
Each isosceles triangle has base length x cm and height 9.4 cm.

Work out the value of x.

$x =$ ..... [4]

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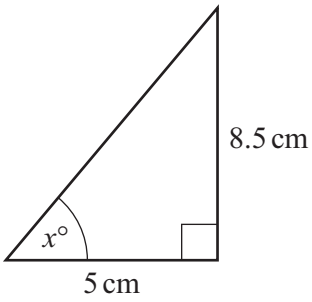
16 The diagram shows a right-angled triangle.



NOT TO SCALE

(a) Calculate the perimeter of the triangle.

..... cm [3]

(b) Find the value of x.

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

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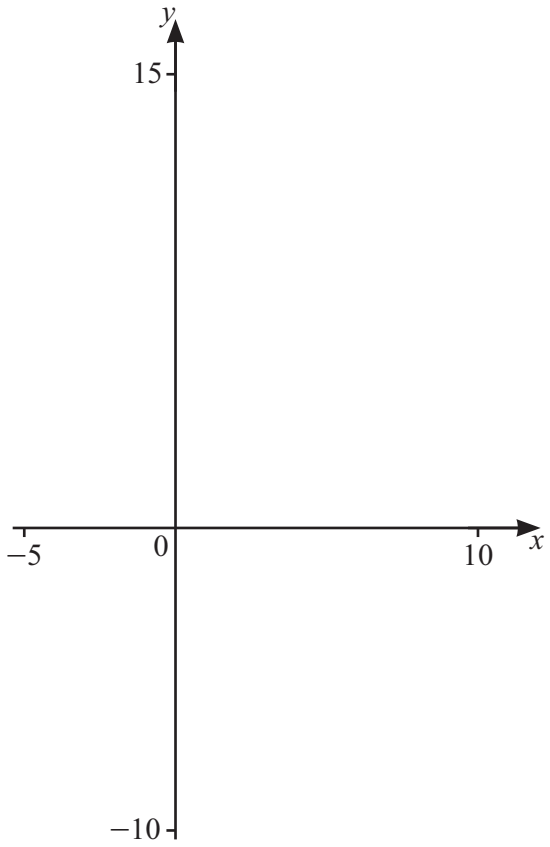

(a) On the diagram, sketch the graph of $y = \frac{6}{4-x}$ for values of x between -5 and 10. [3]

(b) Find the coordinates of the point where the graph crosses the y-axis.

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

(c) On the diagram, sketch the graph of $y = 5-x$ for values of x between -5 and 10. [2]

(d) Find the coordinates of the points of intersection of $y = \frac{6}{4-x}$ and $y = 5-x$.

(..... , ...) and (..... , ...) [2]

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