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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.

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 .

$$V = \frac{4}{3}\pi r^3$$



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

lemon	
orange	
apple	
mango	

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]

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

$$-6^2 \dots\dots\dots (-6)^2$$

[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.

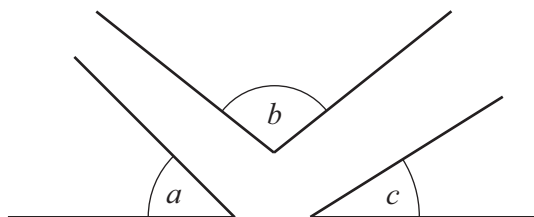
Give your answer in hours and minutes.

..... h min [3]





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 $a = 56^\circ$.

(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]



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]

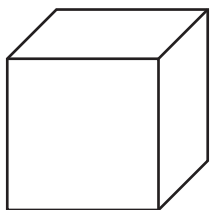
11 Make x the subject of the formula.

$$9y + 16x = 48$$

$x =$ [2]



12 The diagram shows a cube.



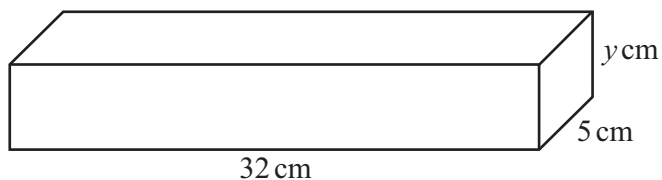
NOT TO SCALE

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

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

[3]

(b)



NOT TO SCALE

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 .

$y = \dots\dots\dots$ [2]

- 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

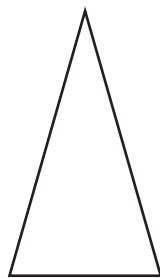
Make two comparisons between the swimming times of the boys and of the girls.

- 1
-
- 2
-

[2]



- 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.

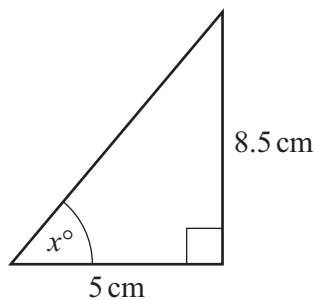
..... [1]

- (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]

16 The diagram shows a right-angled triangle.



NOT TO SCALE

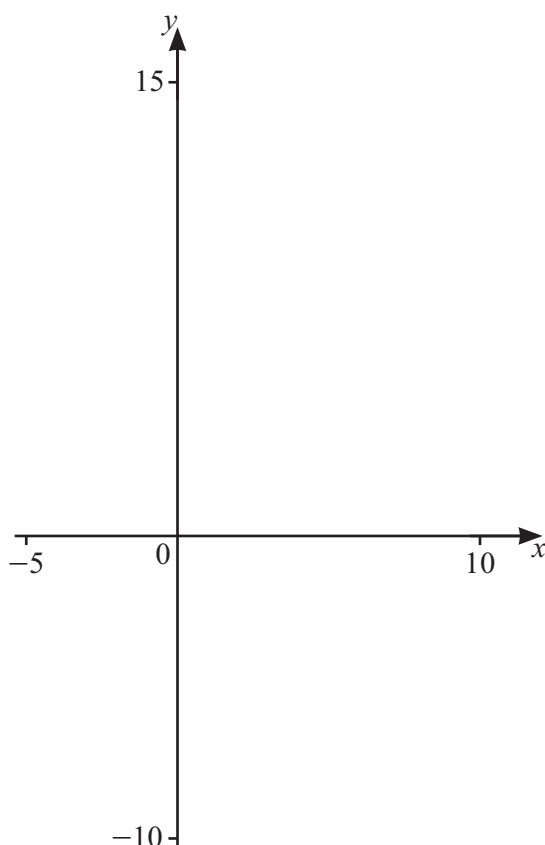
(a) Calculate the perimeter of the triangle.

..... cm [3]

(b) Find the value of x .

$x =$ [2]





(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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