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CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/22**

Paper 2 Non-calculator (Extended) **February/March 2026**

1 hour 30 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 75.
- 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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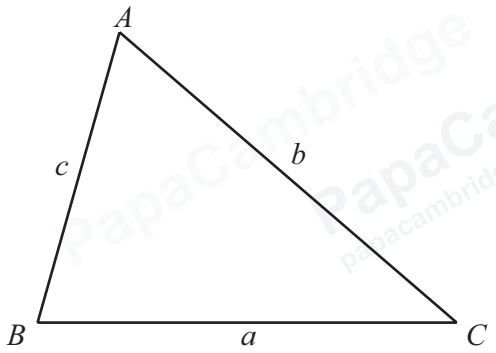
List of formulas

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.	$V = \frac{4}{3}\pi r^3$
For the equation $ax^2 + bx + c = 0$, where $a \neq 0$,	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For the triangle shown,



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc\cos A$$

$$\text{Area} = \frac{1}{2}ab\sin C$$

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

1 The table shows the numbers of letters delivered to each of 90 houses one day.

number of letters	0	1	2	3	4	5	6
frequency	27	23	15	10	8	n	3

(a) Find the value of n.

$n =$ ..... [1]

(b) Find the range.

..... [1]

(c) Find the mode.

..... [1]

(d) Find the median.

..... [1]

(e) One of the 90 houses is selected at random.

Find the probability that the house had more than 4 letters delivered.

..... [1]

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2 Work out.

$$\frac{(-4)^2}{10-2}$$

..... [2]

3 Insert one pair of brackets to make this statement correct.

$$6 \times 8 + 3 + 4 \times 5 = 86$$

[1]

4 A is the point $(-3, 2)$ and B is the point $(4, -7)$.

Find the column vector $\overrightarrow{AB}$.

$\overrightarrow{AB} = \begin{pmatrix} \quad \\ \quad \end{pmatrix}$ [2]

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5 Write the ratio 30 g : 6 kg in its simplest form.

..... : ..... [2]

6 Sami saves $60.
This is $\frac{2}{5}$ of Sami's total wages.

Find Sami's total wages.

$ ..... [2]

7 A 4-sided spinner is spun 200 times.
The results are shown in the table.

(a) Complete the table to show the relative frequencies.

number on spinner	1	2	3	4
frequency	60	50	46	44
relative frequency				

[1]

(b) The spinner is spun 1000 times.

Find the expected number of times the spinner shows 1.

..... [1]

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8 The cost to hire a boat is \$2 per hour plus a fixed fee of \$7.
Mosna has \$15.
Mosna hires a boat for x hours.

Write down and solve an inequality for the number of hours that Mosna can hire a boat.

..... [3]

9 Solve.

(a) $2x - 3 = 6 - 4x$

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

(b) $(x+1)^2 = 9$

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

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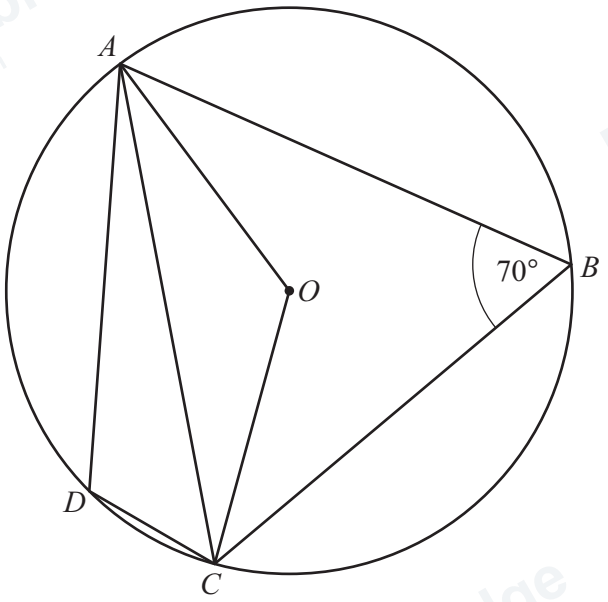
10 The interior angle of a regular polygon is 168°.

Find the number of sides of the polygon.

..... [2]

11



NOT TO SCALE

A, B, C and D are points on the circle, centre O.
Angle $ABC = 70°$.

Complete these statements giving geometrical reasons for your answers.

Angle ADC = ... because .....

.....

Angle ACO = ... because .....

.....

.....

..... [6]

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12 $P = 3.2 \times 10^{22}$ $Q = 4 \times 10^{21}$

(a) Calculate PQ.
Give your answer in standard form.

..... [2]

(b) Calculate $P + Q$.
Give your answer in standard form.

..... [2]

(c) $QR = 1.2 \times 10^{29}$

Find the value of R.
Give your answer in standard form.

$R =$ ..... [2]

13 Rearrange the formula to make x the subject.

$$y = \frac{ax + b}{x - c}$$

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

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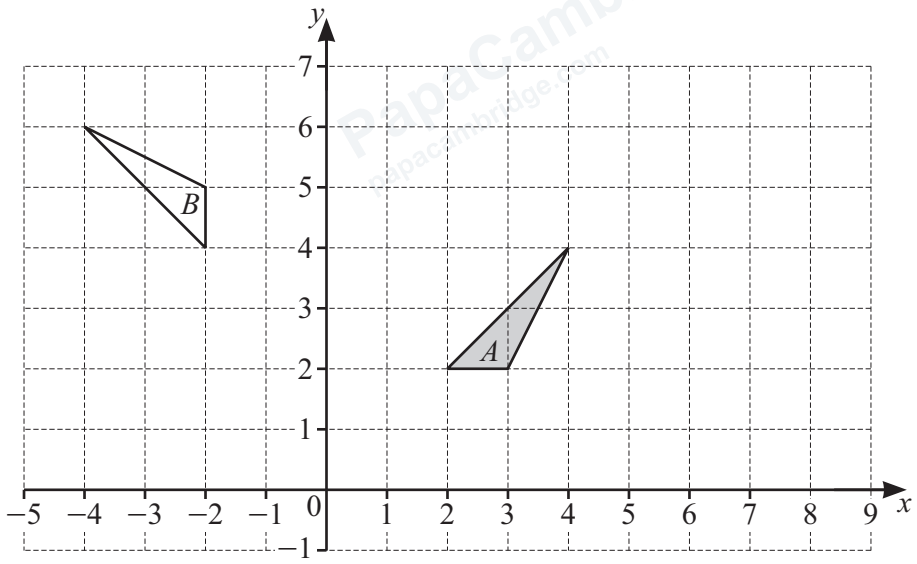
14 The diagram shows triangle *A* and triangle *B* drawn on a square grid.



(a) Describe fully the **single** transformation that maps triangle *A* onto triangle *B*.

.....

..... [3]

(b) Enlarge triangle *A* with scale factor -2 and centre (4, 3). Label the image *C*. [2]

(c) Describe fully the **single** transformation that maps triangle *C* back onto triangle *A*.

.....

..... [3]

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15 Rationalise the denominator and simplify.

$$\frac{5}{4-2\sqrt{3}}$$

..... [3]

16 Simplify.

$$\frac{10x-2x^2}{x^2-25}$$

..... [3]

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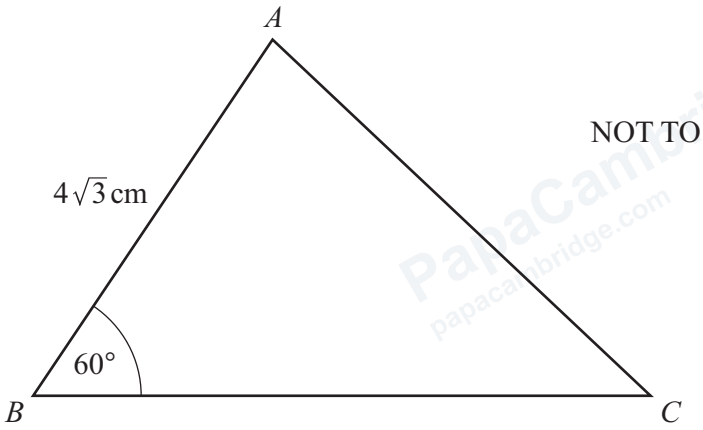
17 The diagram shows triangle ABC.



NOT TO SCALE

The area of triangle ABC is $30\,\text{cm}^2$.

Find the length of BC.

$BC =$ ..... cm [3]

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18 $f(x) = 2x - 3$ $g(x) = x^2 + 1$

(a) Find $fg(2)$.

..... [2]

(b) Find $f^{-1}(x)$.

$f^{-1}(x) =$ ..... [2]

(c) Find $gf(x)$.
Give your answer in the form $ax^2 + bx + c$.

..... [3]

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(d) $\mathrm{h}(x) = px + q$

$\mathrm{fh}(x) = 8x - 1$

Find the value of p and the value of q.

$p =$ .....

$q =$ .....

[3]

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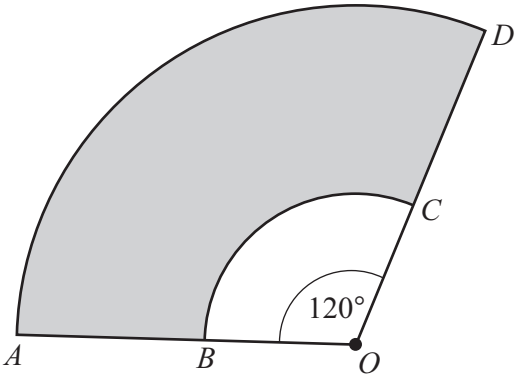

NOT TO SCALE

OAD is a sector of a circle with centre *O* and sector angle 120°.
OBC is a sector of a circle with centre *O* and sector angle 120°.
ABO and *DCO* are straight lines.

$OA = 9\,\text{cm}$ and $OB = 3\,\text{cm}$.
The perimeter of the shaded region *ABCD* is $(a + b\pi)$ cm.

Find the value of *a* and the value of *b*.

$a =$ .....

$b =$ .....

[4]

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20 Solve by factorisation.

$$6x^2 - 13x - 5 = 0$$

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

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