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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.

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 .

$$V = \frac{1}{3}\pi r^2 h$$

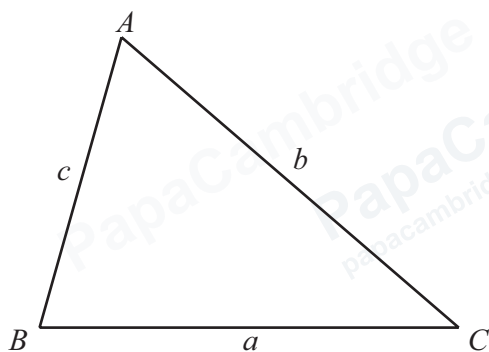
Volume, V , of sphere of radius r .

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

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,



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

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

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

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]

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 $\overrightarrow{AB}$.

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



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]

- 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]

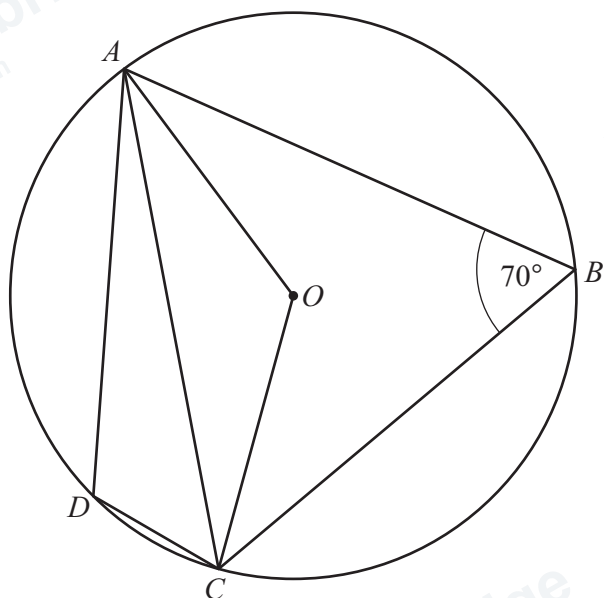


- 10 The interior angle of a regular polygon is 168° .

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 $ABC = 70^\circ$.

Complete these statements giving geometrical reasons for your answers.

Angle $ADC = \dots\dots\dots$ because $\dots\dots\dots$

.....

Angle $ACO = \dots\dots\dots$ because $\dots\dots\dots$

.....

.....

.....

[6]

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]

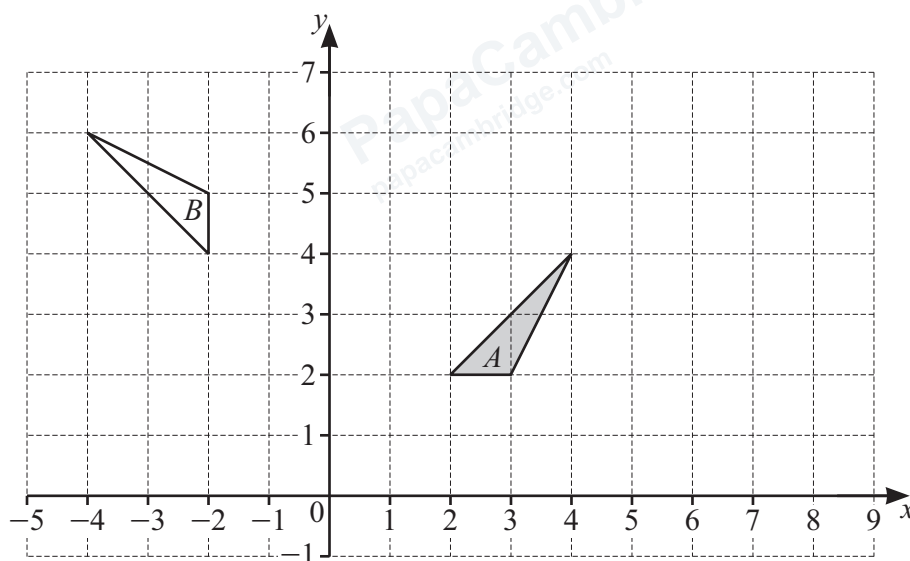
- 13 Rearrange the formula to make x the subject.

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

$x =$ [4]



- 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]



15 Rationalise the denominator and simplify.

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

..... [3]

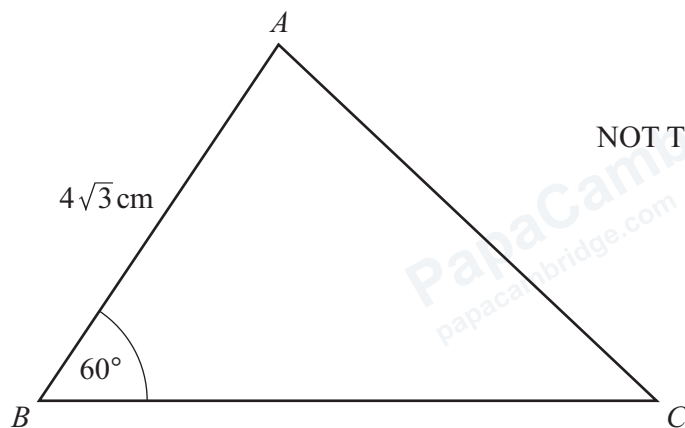
16 Simplify.

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

..... [3]



17 The diagram shows triangle ABC .



The area of triangle ABC is 30 cm^2 .

Find the length of BC .

$BC = \dots\dots\dots \text{ cm}$ [3]

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]





(d) $h(x) = px + q$

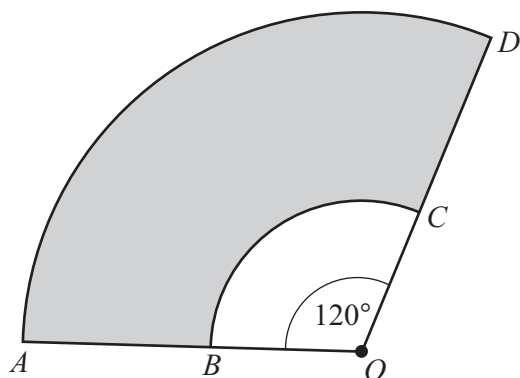
$fh(x) = 8x - 1$

Find the value of p and the value of q .

$p = \dots\dots\dots$

$q = \dots\dots\dots$

[3]



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 $(a + b\pi)\text{ cm}$.

Find the value of a and the value of b .

$a =$

$b =$

[4]





20 Solve by factorisation.

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

$$x = \dots\dots\dots \text{ or } x = \dots\dots\dots [3]$$





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