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CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/11

Paper 1 Non-calculator (Core)

October/November 2025

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 or correction fluid.
- 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 60.
- The number of marks for each question or part question is shown in brackets [].

This document has **12** pages.

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 .

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



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

- 1 (a) Work out.

$$10 - 2 \times 3$$

..... [1]

- (b) Write the missing number in each box.

$$\begin{array}{r} 7 \square 3 . 5 8 \\ + 2 0 \square . \square 3 \\ \hline \square 3 0 . 2 \square \end{array}$$

[2]

- (c) Work out $(0.1)^2$.

..... [1]

- 2 Write 87.49 correct to the nearest whole number.

..... [1]

- 3 (a) Convert 0.5 metres to millimetres.

..... mm [1]

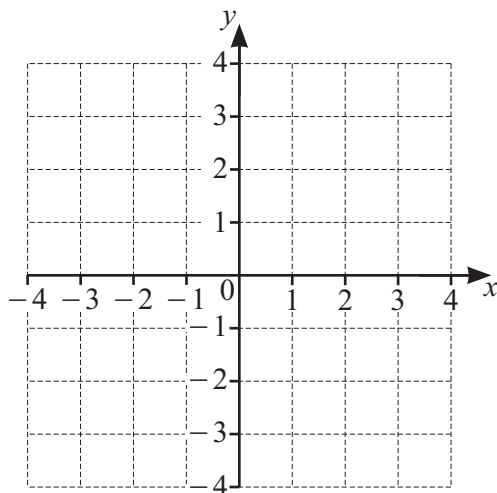
- (b) Write 12 hours as a fraction of a day.

..... [1]

- 4 Write 0.67 as a percentage.

..... % [1]





(a) On the grid, plot the point $(-3, 1)$. [1]

(b) The line L passes through the point $(1, -2)$.
The gradient of line L is zero.

On the grid, draw the line L . [1]

6 The list shows the number of bedrooms in each of 12 houses.

3 5 5 2 4 2 3 4 2 1 1 3

(a) Find the median.

..... [2]

(b) Find the range.

..... [1]



- 7 Hamid walks at an average speed of 1.1 m/s.
He walks for 1 minute and 30 seconds.

Find the distance that Hamid walks.

..... m [2]

- 8 (a) Simplify.

$$3a - 3b + 4a - 2a + b$$

..... [2]

- (b) Simplify.

$$\frac{7x}{2x^2}$$

..... [1]

- (c) Expand.

$$8a(2a - 5b)$$

..... [2]





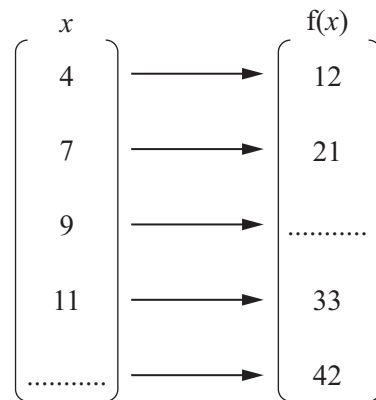
- 9 In a competition, Amal scores $\frac{2}{5}$ of her team's goals.

Amal scores 6 goals.

Work out the total number of goals Amal's team scores in the competition.

..... [2]

- 10 (a) Complete the mapping diagram.



[2]

- (b) $g(x) = 5x - 4$

Find the value of x when $g(x) = 6$.

$x =$ [2]



11 (a) Share \$280 in the ratio 5 : 2.

\$ and \$ [2]

(b) Write the ratio 180 : 360 : 480 in its simplest form.

..... : : [2]

12 These are the first 4 terms of a sequence.

1 5 9 13

(a) Write down the next term in this sequence.

..... [1]

(b) Explain why 31 is **not** in this sequence.

..... [1]

13 Use calculations to show that the interior angle of a regular octagon is 135° .

[2]



14 (a) $2^x = 64$

Find the value of x .

$x = \dots\dots\dots$ [1]

(b) $4^y = \frac{1}{4}$

Find the value of y .

$y = \dots\dots\dots$ [1]

15 These are the heights, in cm, of 12 flowers.

25	39	18	19	48	41
12	34	14	24	20	46

(a) Draw an ordered stem-and-leaf diagram for these heights.

1	
2	
3	
4	

Key | represents cm
[3]

(b) Write down the fraction of these flowers with height less than 30 cm.

..... [1]



16 The area of a circle is $36\pi \text{ cm}^2$.

Find the radius of the circle.

..... cm [2]

17 (a) Write down all the factors of 35.

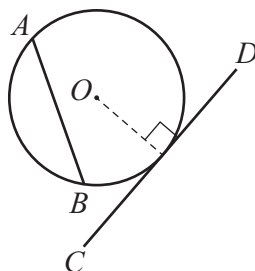
..... [2]

(b) Find the lowest common multiple (LCM) of 30 and 54.

..... [2]



18 (a)



The diagram shows a circle, centre O , and the straight lines AB and CD .

Write down the mathematical name of

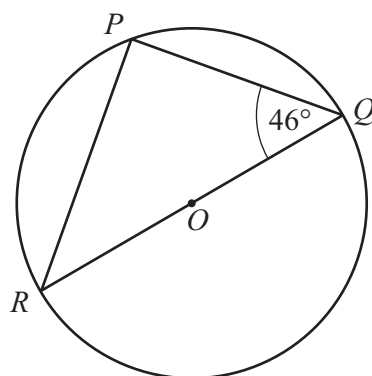
(i) the line AB

..... [1]

(ii) the line CD .

..... [1]

(b)



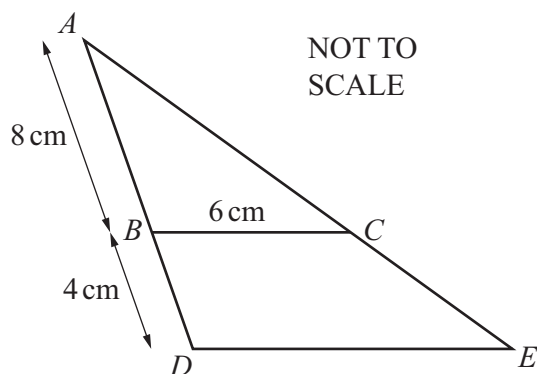
NOT TO
SCALE

Points P , Q and R lie on a circle, centre O .
 QR is a diameter.

Work out angle PRQ .

Angle $PRQ =$ [2]





Triangle ABC and triangle ADE are mathematically similar.

Work out DE .

$DE = \dots\dots\dots$ cm [2]

20 Solve the simultaneous equations.

$$\begin{aligned} 2x + 3y &= 5 \\ -4x + y &= 11 \end{aligned}$$

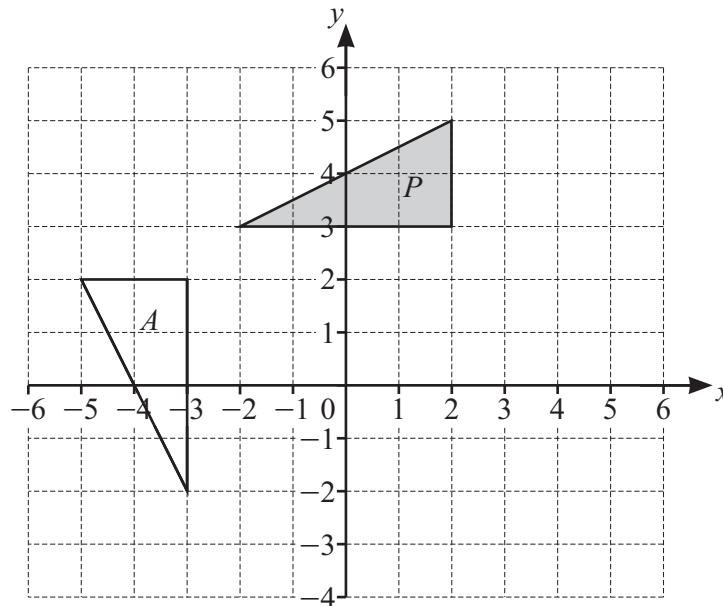
$x = \dots\dots\dots$

$y = \dots\dots\dots$

[3]

Question 21 is printed on the next page.





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

.....
 [3]

- (b) Translate triangle P by the vector $\begin{pmatrix} 2 \\ -4 \end{pmatrix}$. [2]

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