



## Cambridge IGCSE™

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## CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/11

## Paper 1 Non-calculator (Core)

May/June 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.
- 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) Write four thousand and eleven in figures.

..... [1]

- (b) Work out.

(i)  $\frac{26 + 34}{10 - 6}$

..... [2]

(ii)  $306 \div 9$

..... [1]

- 2 (a) Draw a line of length 6 cm.

[1]

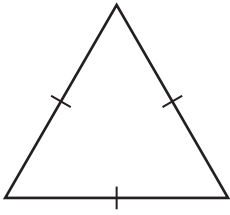
- (b) Draw an angle of  $70^\circ$  at  $A$ .

$A$  

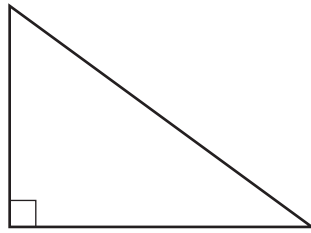
[1]

[Turn over]

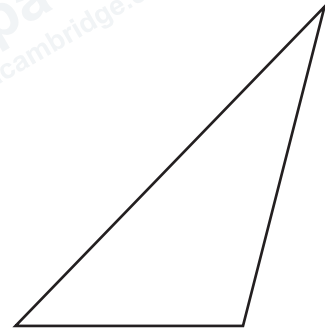
3 Write down the mathematical name for each triangle.



..... triangle



..... triangle



..... triangle

[2]

4 This is a list of numbers.

−4      0.33      1      2       $\sqrt{3}$        $\frac{1}{4}$       5

From the list, write down

(a) an odd number

..... [1]

(b) a prime number

..... [1]

(c) the irrational number

..... [1]

(d) the reciprocal of 4.

..... [1]

5 Write a number in each box to make the subtraction correct.

$$\begin{array}{r} 7 \ 6 \ 2 \\ - \boxed{\phantom{0}} \ 7 \ \boxed{\phantom{0}} \\ \hline 3 \ \boxed{\phantom{0}} \ 8 \\ \hline \end{array}$$

[3]





6  $f(x) = \frac{5(x-2)}{4}$

(a) Find  $f(3)$ .

..... [2]

(b) Find the value of  $x$  when  $f(x) = 20$ .

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

7 Solve.

(a)  $x + 3 = 1$

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

(b)  $7x = 2x + 9$

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

8 (a) Write  $6.4 \times 10^{-3}$  as an ordinary number.

..... [1]

(b) Work out  $5^{-3}$ .  
Give your answer as a fraction.

..... [2]

(c) Work out  $2^4 \times \sqrt[3]{27}$ .

..... [2]

9 The equation of a line is  $3y = 9 - 6x$ .  
Find the gradient of this line.

..... [2]



10 (a) Simplify.

$$2h + 3h - 4h$$

..... [1]

(b) Expand and simplify.

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

..... [2]

(c) Factorise.

$$2x - 3x^2$$

..... [1]

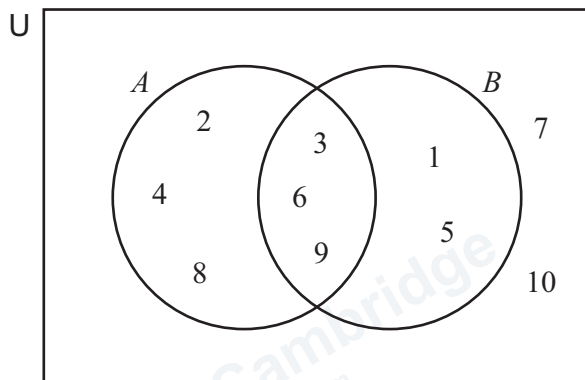
11  $P = R + 4N$

Rearrange the formula to make  $N$  the subject.

$N =$  ..... [2]



12 (a) This is a Venn diagram.



Write down

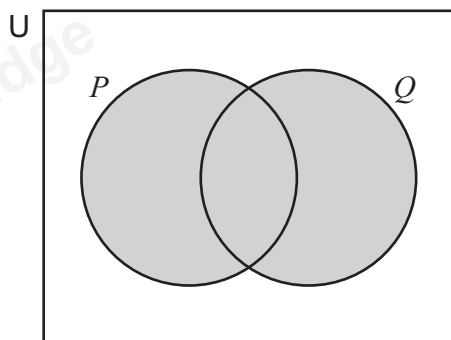
(i) the elements of  $A \cap B$

..... [1]

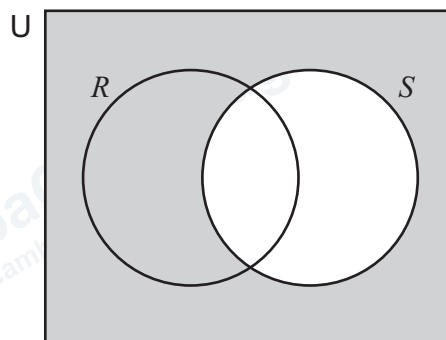
(ii)  $n(A)$ .

..... [1]

(b) Use set notation to describe each of the shaded regions.



.....



.....

[2]

13 Simplify.

$$6x^5 \div 3x^{-2}$$

..... [2]

- 14 A basket contains 11 pieces of fruit.  
There are 6 apples in the basket.

- (a) A piece of fruit is picked at random from the basket.

Write down the probability of

- (i) picking an apple

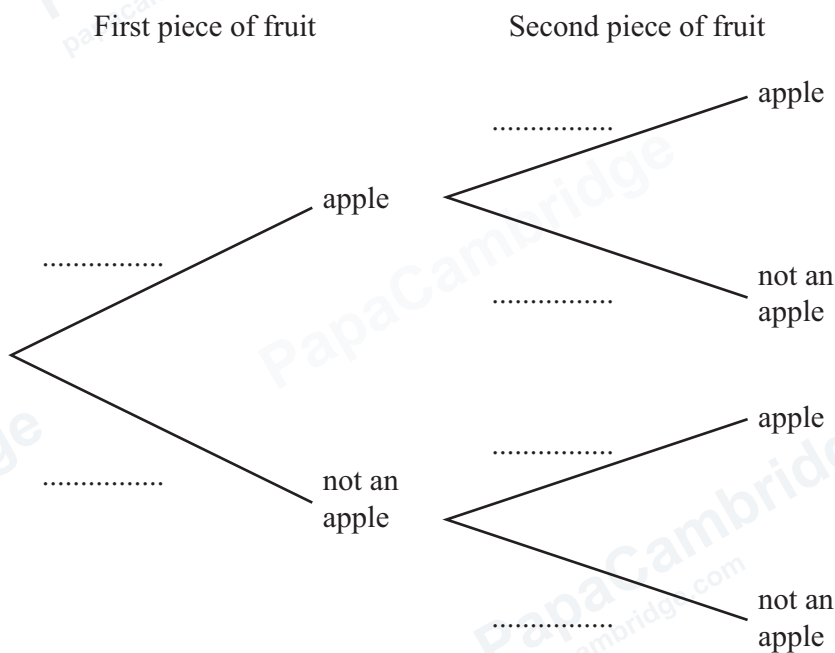
..... [1]

- (ii) not picking an apple.

..... [1]

- (b) The first piece of fruit is replaced in the basket.  
A second piece of fruit is picked at random.

- (i) Complete the tree diagram.



[2]

- (ii) Find the probability of picking 2 apples.

..... [2]



- 15 A cone has a volume of  $48\pi \text{ cm}^3$ .  
The radius of the cone is 6 cm.

Find the height of the cone.

..... cm [2]

- 16 The bearing of  $B$  from  $A$  is  $055^\circ$ .

Find the bearing of  $A$  from  $B$ .

..... [2]





17 This is a parallelogram.



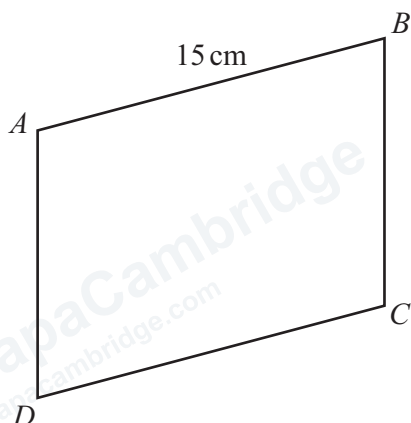
(a) (i) Write down the number of lines of symmetry of the parallelogram.

..... [1]

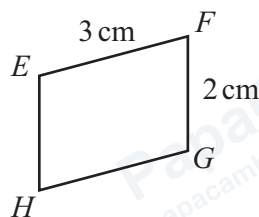
(ii) Write down the order of rotational symmetry of the parallelogram.

..... [1]

(b)



NOT TO SCALE

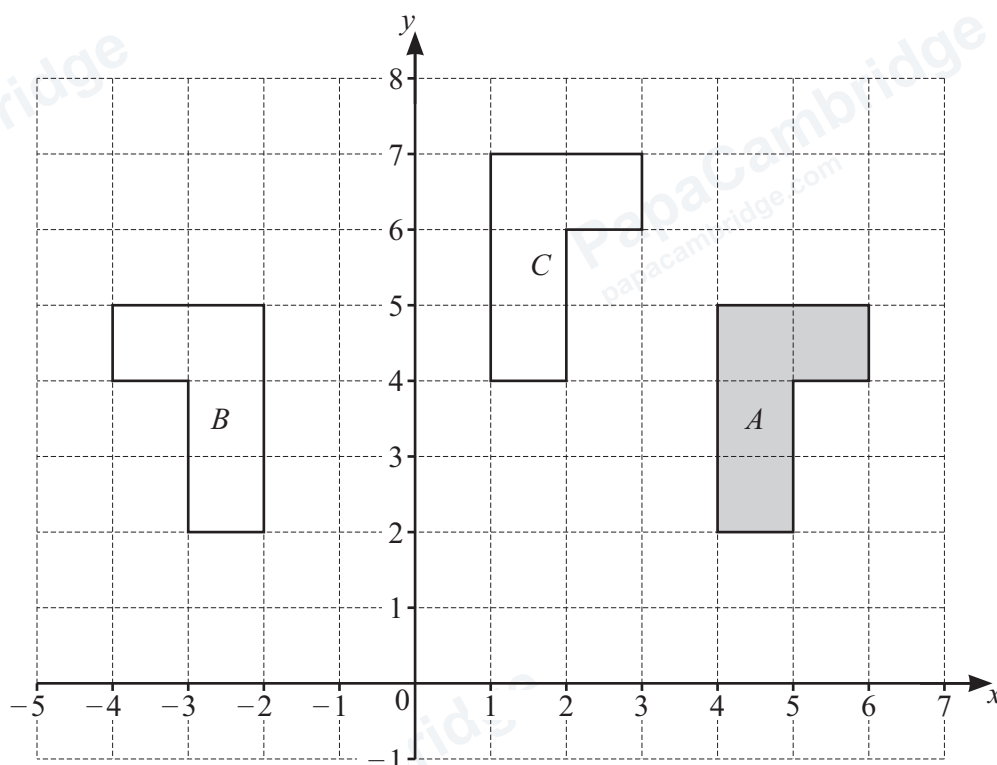


Parallelogram  $ABCD$  is mathematically similar to parallelogram  $EFGH$ .

Find the length of  $BC$ .

..... cm [2]

Question 18 is on the back page.



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

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

- (b) Describe fully the **single** transformation that maps shape *A* onto shape *C*.

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

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