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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.

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

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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° at A.

A •

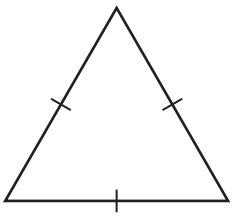
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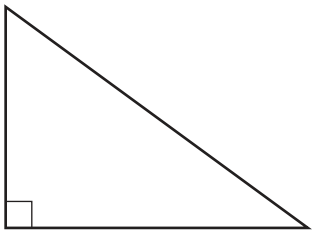
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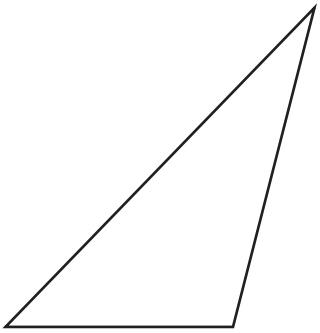
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3 Write down the mathematical name for each triangle.







..... 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.

$$\begin{array}{r} 7\ 6\ 2 \\ -\ \square\ 7\ \square \\ \hline 3\ \square\ 8 \\ \hline \end{array}$$

[3]

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

(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]

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8 **(a)** Write 6.4×10^{-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]

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10 **(a)** Simplify.

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

..... [1]

(b) Expand and simplify.

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

..... [2]

(c) Factorise.

$$2x - 3x^2$$

..... [1]

11 $P = R + 4N$

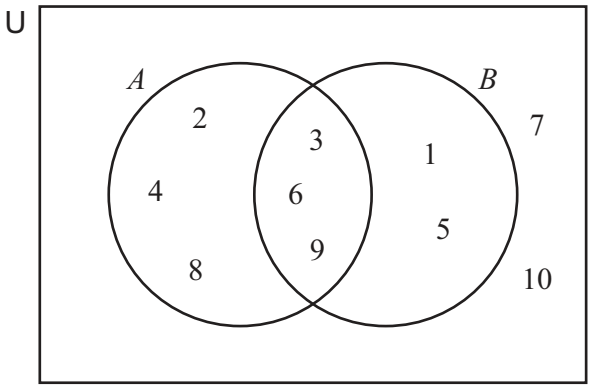
Rearrange the formula to make N the subject.

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

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12 **(a)** This is a Venn diagram.



Write down

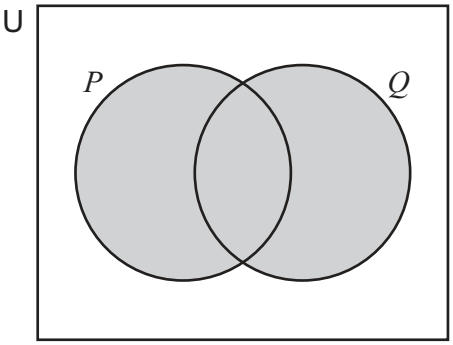
(i) the elements of $A \cap B$

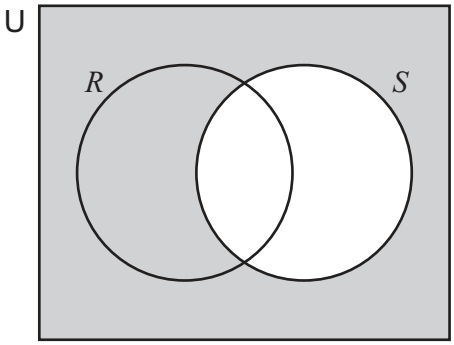
..... [1]

(ii) $n(A)$.

..... [1]

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





....

[2]

13 Simplify.

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

..... [2]

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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

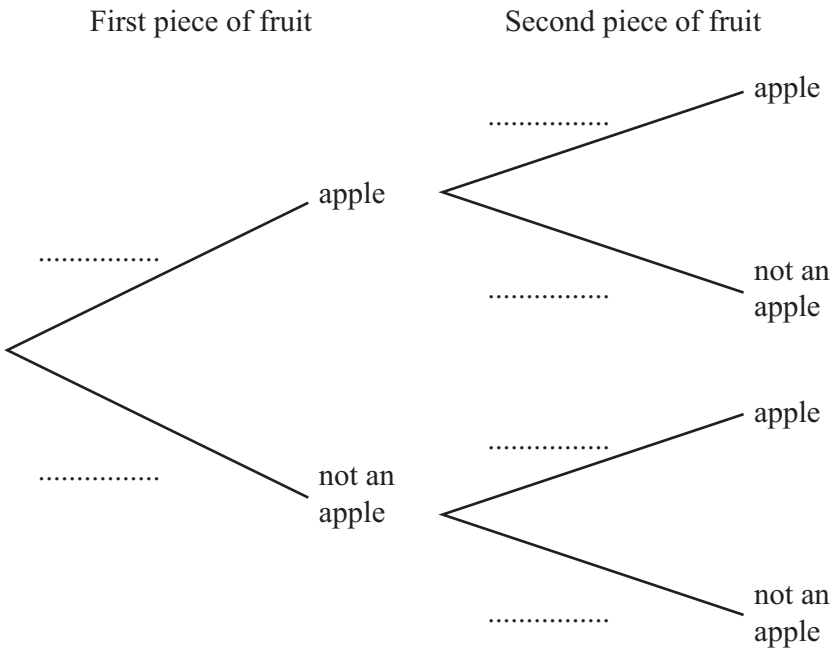
..... [1]

(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]

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15 A cone has a volume of 48π 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°.

Find the bearing of A from B.

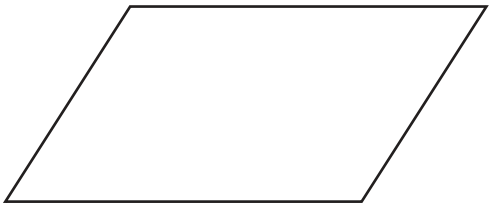
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17 This is a parallelogram.



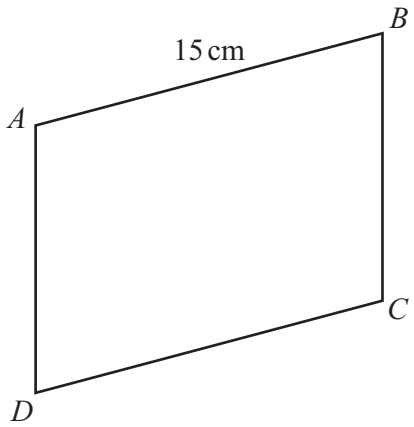
(a) (i) Write down the number of lines of symmetry of the parallelogram.

..... [1]

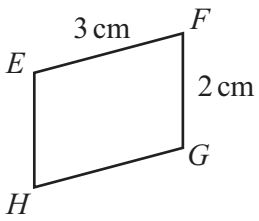
(ii) Write down the order of rotational symmetry of the parallelogram.

..... [1]

(b)



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

Find the length of *BC*.

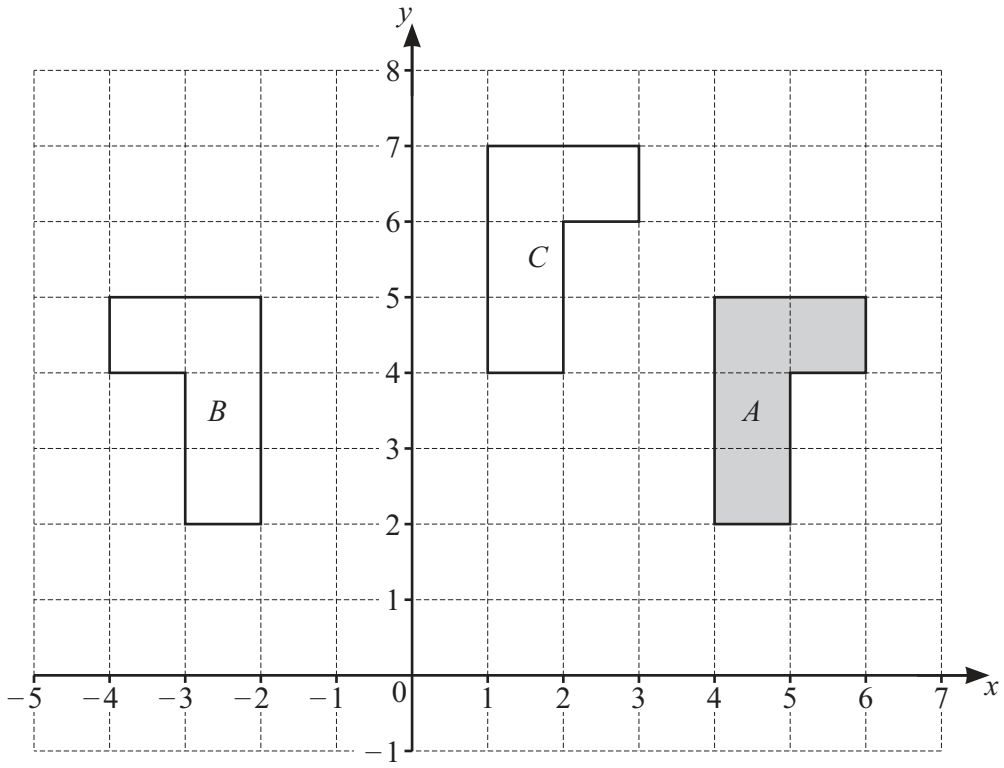
..... cm [2]

Question 18 is on the back page.

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18



(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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