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CAMBRIDGE
International Education

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6937498865

CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/13**

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)** Work out $\frac{5}{6}$ of 42.

..... [1]

(b) Write 0.15 as a percentage.

.....% [1]

(c) Complete the statement.

$$40\% = \frac{\square}{20}$$ [2]

2 Write down all the factors of 21.

..... [2]

3 Robin spends 1 hour answering questions in his homework.
Robin spends 5 minutes answering each question.

Work out the number of questions Robin answers.

..... [2]

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4 **(a)** Work out.

$$4\frac{1}{5} \div 5$$

Give your answer as a fraction.

..... [2]

(b) Work out $13 - 1 \times -7$.

..... [1]

5 This is a list of numbers.

-7 1 49 10 3 45 33

From the list, write down

(a) the cube number

..... [1]

(b) the number that is a common multiple of 3 and 5.

..... [1]

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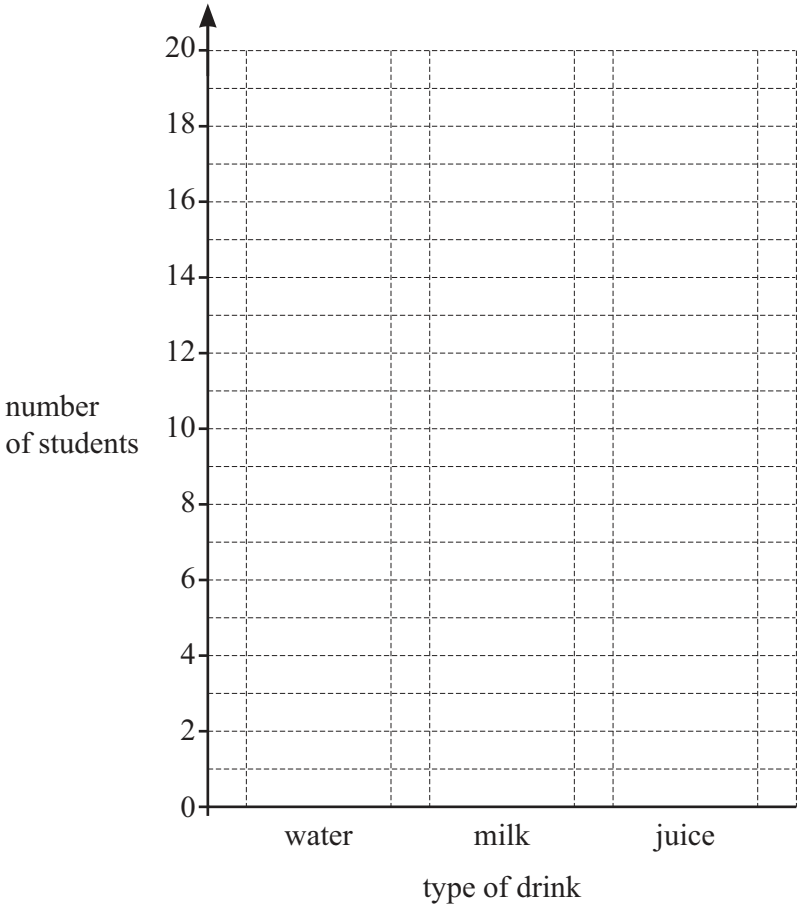
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6 The table shows the choice of drink for some students in a school.

type of drink	number of students
water	20
milk	8
juice	12

(a) On the grid, draw a bar chart to show this information.



[2]

(b) One of these students is chosen at random.

Write down the probability that this student chooses water.
Give your answer as a fraction in its simplest form.

..... [2]

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7 Line L has equation $y = 2x - 5$.

(a) Line L crosses the y-axis at point A.

Write down the coordinates of A.

$A = ($ ..... , ... $)$ [1]

(b) Write down the gradient of line L.

..... [1]

(c) Point B has coordinates (4, 3).

Show that line L passes through B.

[1]

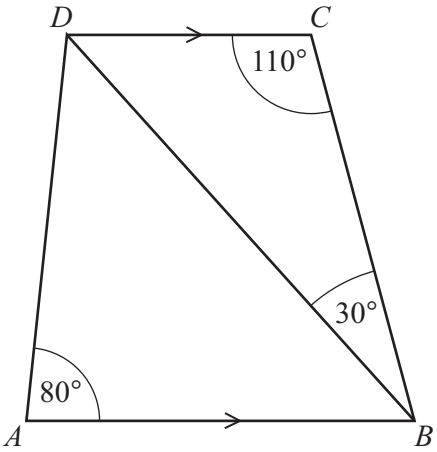
(d) Find the coordinates of the midpoint of AB.

(..... , ...) [2]

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8 The diagram shows a quadrilateral *ABCD*.



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AB is parallel to *DC*.

(a) Write down the mathematical name of this quadrilateral.

..... [1]

(b) Find the size of the following angles.
Give a geometric reason for each answer.

(i) Angle *CDB* = ... because .....

..... [2]

(ii) Angle *DBA* = ... because .....

..... [2]

(c) Complete each statement with a mathematical name.

(i) Triangle *BCD* is a ..... triangle. [1]

(ii) Angle *DCB* is an ..... angle. [1]

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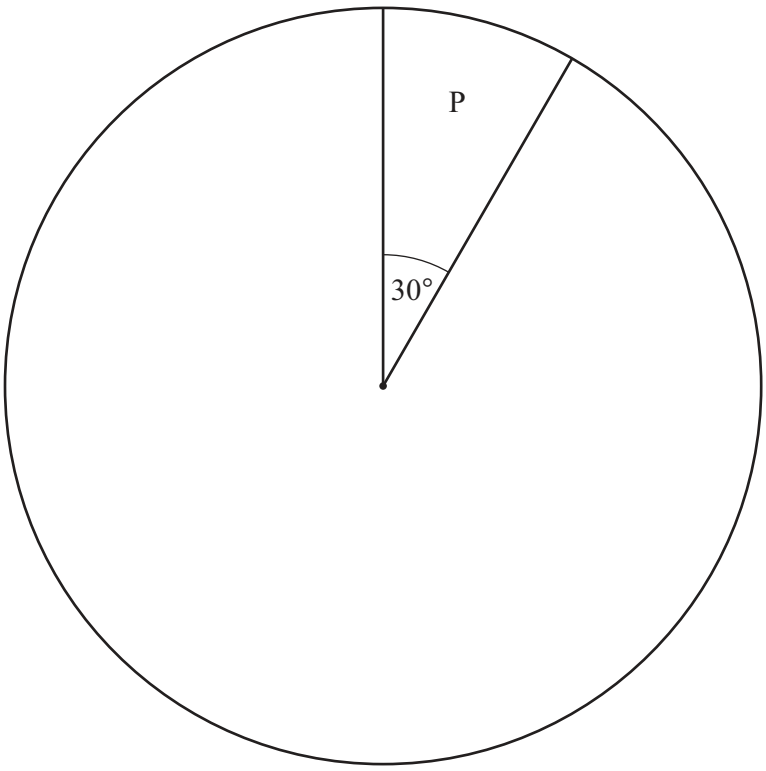
9 Hanan is drawing a pie chart to show the number of each type of email she receives one day.

type of email	frequency	pie chart angle
promotions (P)	5	30°
main (M)	15	
work (W)	30	
social (S)	10	

(a) Complete the table.

[2]

(b) Complete the pie chart to show this information.



[2]

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10 x and y are integers between 26 and 65.
x is a square number,
y is a cube number,
$(x - y)$ is a prime number.

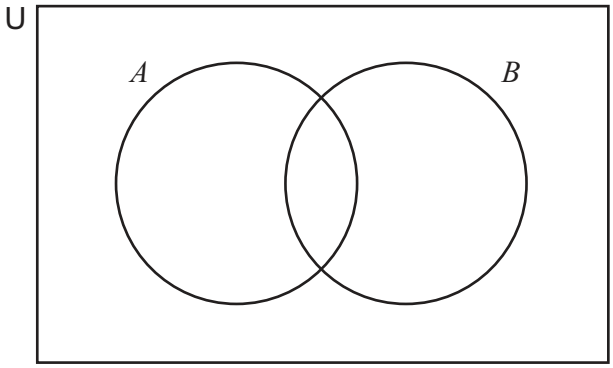
Find the value of x and the value of y.

$x =$ .....

$y =$ .....
[3]

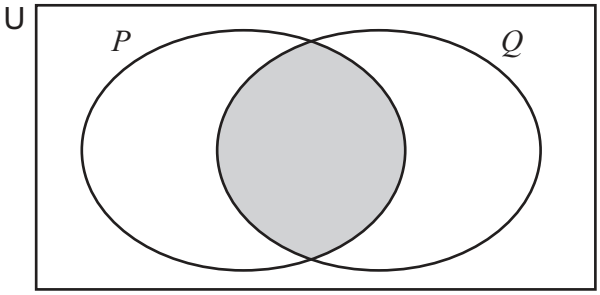
11 **(a)** $\mathrm{U} = \{\text{integers from 1 to 12}\}$
$A = \{2, 5, 9, 11, 12\}$
$B = \{3, 5, 7, 9, 12\}$

Complete the Venn diagram.



[2]

(b) Use set notation to describe the shaded region.



..... [1]

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12 A bag contains red counters and green counters.
The ratio red counters : green counters = 2 : 3.

(a) Sammy takes a counter at random from the bag and replaces it.
Sammy repeats this 200 times.

Work out the expected number of times Sammy takes a green counter.

..... [2]

(b) Maddy says that the total number of counters in the bag is 88.

Explain why Maddy must be wrong.

.....

..... [1]

13 **(a)** Factorise $12b^4 - 3b$.

..... [2]

(b) Expand and simplify.

$$2(3x-1)+5(2x+5)$$

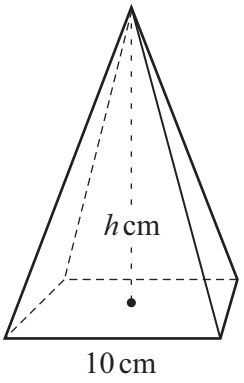
..... [2]

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14



The diagram shows a pyramid with height h cm.
The base of the pyramid is a square with side 10 cm.
The volume of the pyramid is 900 cm^3.

Work out the value of h.

$h =$ ..... [3]

15 Solve the simultaneous equations.

$$6x + 7y = 32$$
$$4x - 3y = 6$$

$x =$ .....

$y =$ .....
[4]

Questions 16 and 17 are on the back page.

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16 The circumference of a circle is 12π metres.

Work out the area of the circle.
Give your answer in terms of π.

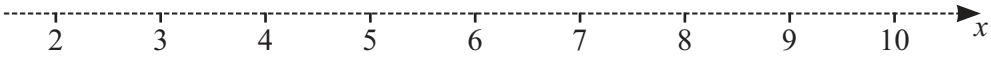
..... m^2 [3]

17 **(a)** Write down all the integer values of n that satisfy this inequality.

$$2 < n \leqslant 6$$

..... [2]

(b) Show the inequality $4 \leqslant x < 8$ on the number line.



[2]

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