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# Cambridge IGCSE™

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*4901954880*

**MATHEMATICS** **0580/11**

Paper 1 Non-calculator (Core) **May/June 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.

**INFORMATION**

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **16** 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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**1**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.694 | $\sqrt{18}$ | 6 | 6.666 | 7 | $\sqrt{225}$ | 25 | 27 | 39 | 56 | 1000 |

From the list of numbers, write down

**(a)** an even number

..... [1]

**(b)** a factor of 28

..... [1]

**(c)** a square number

..... [1]

**(d)** a prime number

..... [1]

**(e)** an irrational number.

..... [1]

**2** **(a)** Bella is $b$ years old.
Alan is 5 years older than Bella.

Write an expression, in terms of $b$, for how old Alan is.

..... [1]

**(b)** Write an expression for the total cost, in cents, of $x$ bags of sweets costing 65 cents each.

..... cents [1]

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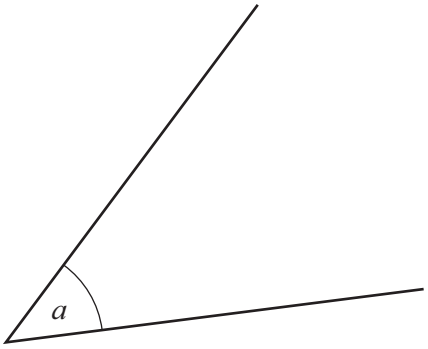


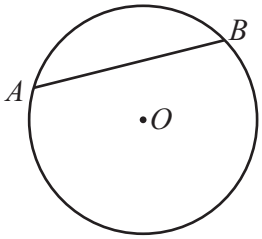

**(a)** Measure angle $a$.

..... [1]

**(b)** Write down the mathematical name for this type of angle.

..... [1]

**4** **(a)** Points $A$ and $B$ lie on a circle, centre $O$, as shown in the diagram.




Write down the mathematical name for line $AB$.

..... [1]

**(b)** A quadrilateral has

- four equal sides
- no right angles
- opposite angles that are equal.

Write down the mathematical name for this quadrilateral.

..... [1]

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**5** **(a)** Write $\frac{1}{2}$ as a decimal.

..... [1]

**(b)** Write $\frac{9}{10}$ as a percentage.

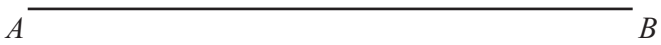
.....% [1]

**(c)** Write 0.15 as a fraction in its simplest form.

..... [1]

**6** Triangle $ABC$ has sides $AC = 7.4\,\text{cm}$ and $BC = 4.6\,\text{cm}$.

**Using a ruler and compasses only**, construct triangle $ABC$.
Leave in your construction arcs.
The side $AB$ has been drawn for you.




[2]

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**7** **(a)** Two fair 4-sided dice have faces numbered 1 to 4.
The dice are thrown, and the numbers are multiplied to give a total.
The table shows all the possible results.

dice *B*

| dice *A* | **1** | **2** | **3** | **4** |
|---|---|---|---|---|
| **1** | 1 | 2 | 3 | 4 |
| **2** | 2 | 4 | 6 | 8 |
| **3** | 3 | 6 | 9 | 12 |
| **4** | 4 | 8 | 12 | 16 |

Find the probability the total is

**(i)** 12

..... [1]

**(ii)** 5

..... [1]

**(iii)** a number that is less than 20.

..... [1]

**(b)** A biased 6-sided dice, numbered 1 to 6, is thrown.
The probability of scoring the number 6 is 0.2 .

Work out the probability of scoring a number less than 6.

..... [1]

**8** In a town, the lowest temperature one night is −12.6 °C.
The highest temperature the next day is 25.7 °C.

Calculate the difference between these two temperatures.

..... °C [1]

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**9** When Ahmed gets out of bed he takes

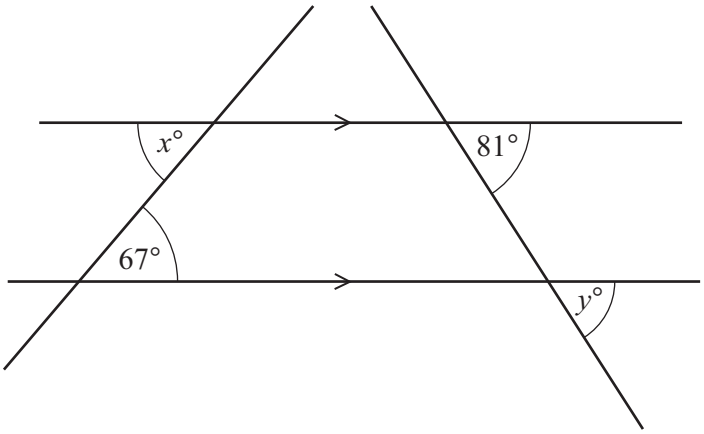
- 12 minutes to get dressed
- 26 minutes to eat breakfast
- 37 minutes to walk to the station.

Ahmed must be at the station by 09 45.

Work out the **latest** time Ahmed can get out of bed.

..... [2]

**10** The diagram shows two straight lines intersecting two parallel lines.




NOT TO SCALE

Complete each of these statements with the correct geometrical reason.

$x = 67$ because .....

$y = 81$ because .....

[2]

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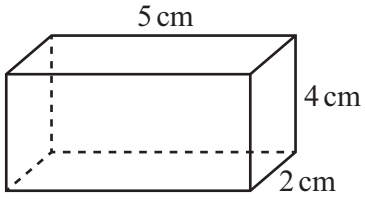
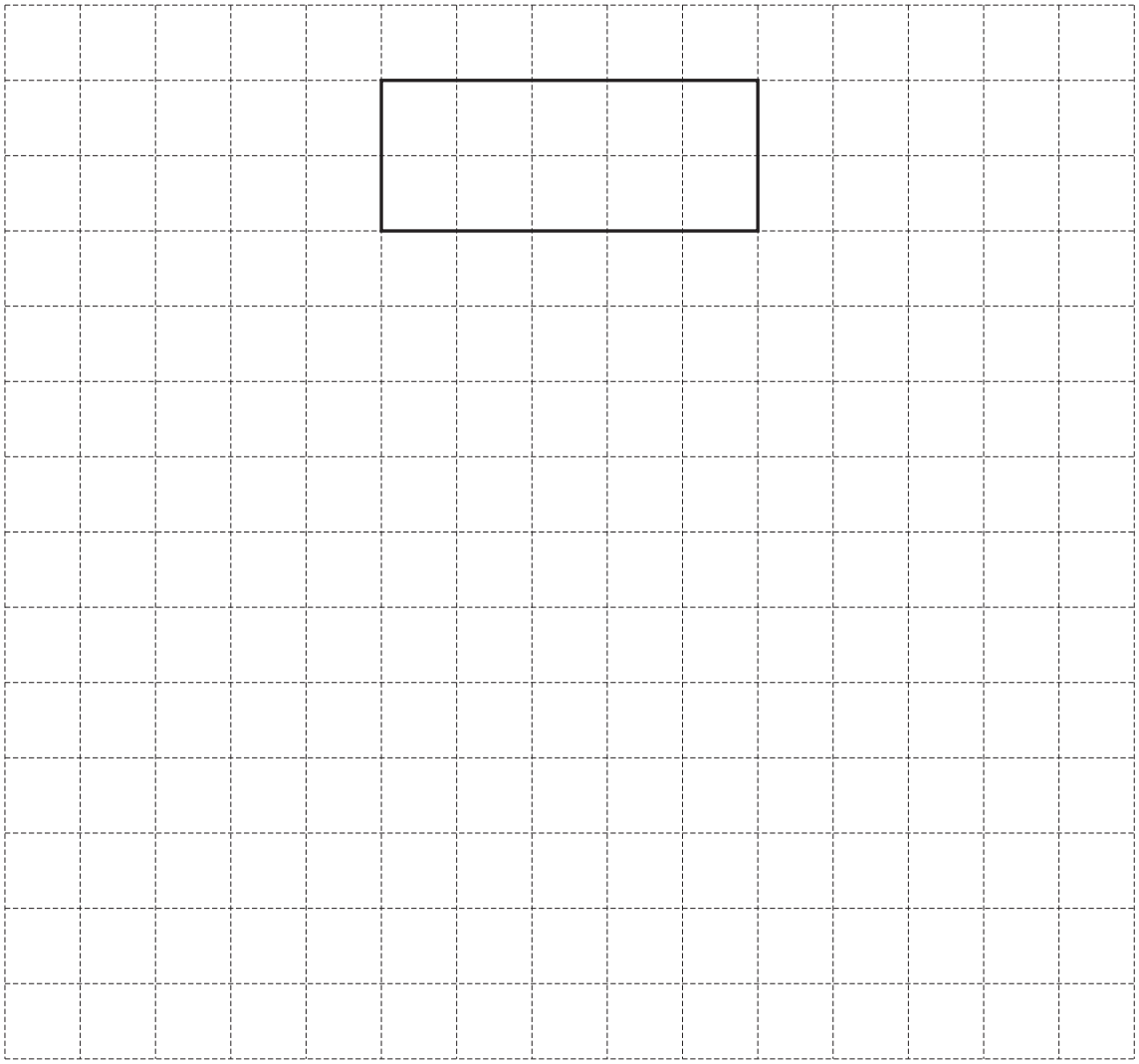
**11**




NOT TO SCALE

On the 1cm$^2$ grid, complete a net of this cuboid.
One face has been drawn for you.



[3]

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**12** The stem-and-leaf diagram shows the lengths, in centimetres, of 32 wooden planks.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 9 | | | |
| 24 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 6 | 8 | 8 | 9 |
| 25 | 2 | 3 | 5 | 6 | 7 | 9 | 9 | 9 | | | |
| 26 | 0 | 0 | 1 | 2 | 4 | | | | | | |

key : 23 | 3 represents 233 cm

**(a)** Find the range.

..... cm [1]

**(b)** Find the mode.

..... cm [1]

**(c)** Find the median.

..... cm [1]

**(d)** Find the fraction of all these planks which are less than 236 cm.
Write your answer as a fraction in its simplest form.

..... [2]

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**13** By writing each number in the calculation correct to 1 significant figure, work out an estimate for the value of

$$\frac{9.57 \times 3.84}{6.72 + 1.13}.$$

..... [2]

**14** A bag contains 45 balls.
The balls are red or green.
The balls are in the ratio red balls : green balls = 2 : 3.

Carlos puts 4 more red balls and $x$ more green balls into the bag.
The balls are now in the ratio red balls : green balls = 1 : 2.

Find the value of $x$.

$x =$ ..... [4]

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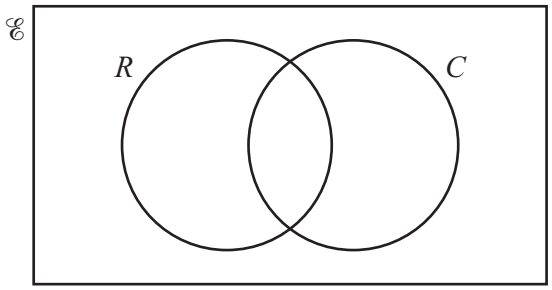
**15** **(a)** 60 people complete a survey about hobbies.

41 people like reading books ($R$).
31 people like cookery ($C$).
11 do not like reading books and do not like cookery.




**(i)** Complete the Venn diagram.

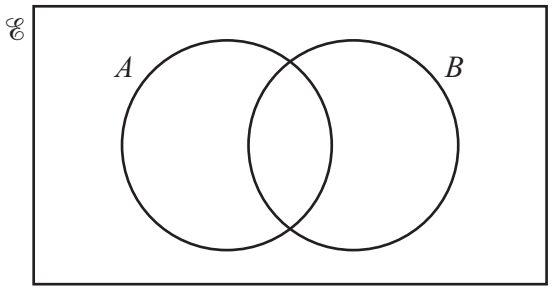
[2]

**(ii)** One of these 60 people is picked at random.

Find the probability that they like cookery but they do not like reading books.

..... [1]

**(b)**




Shade $A \cap B$. [1]

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**16** Buses at a station go to Alve or to Riba.
Buses leave every 16 minutes for Alve.
Buses leave every 28 minutes for Riba.
At 08 25 a bus for Alve and a bus for Riba leave the station together.

Find the next time a bus for Alve and a bus for Riba leave the station together.

..... [3]

**17** Work out.

$$2\frac{1}{6} - 1\frac{3}{5}$$

Write your answer as a fraction in its simplest form.

..... [3]

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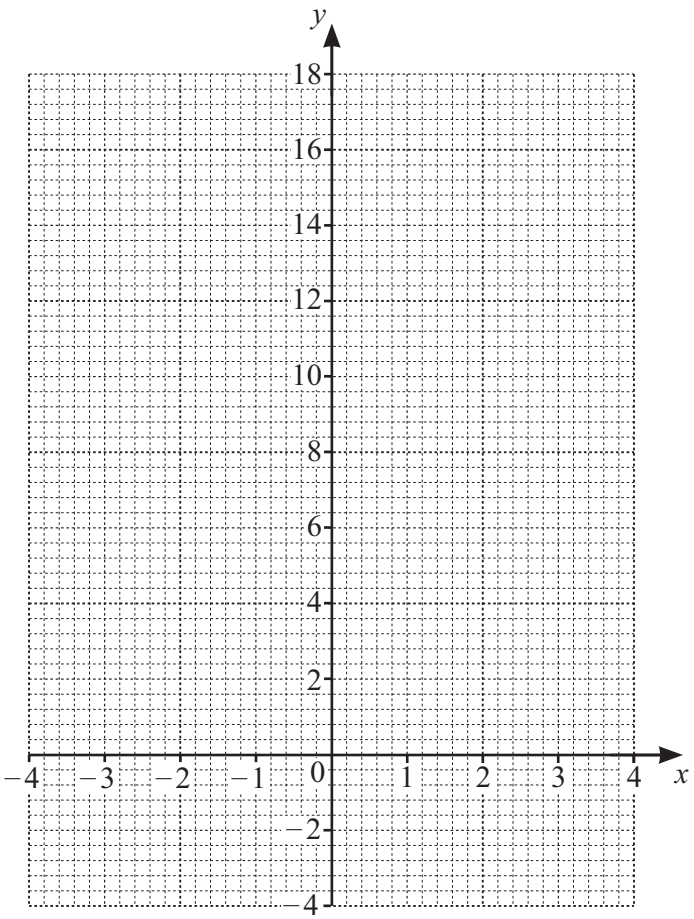
**18** **(a)** Complete the table of values for $y = x^2 + x - 3$.

| $x$ | −4 | −3 | −2 | −1 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|
| $y$ | 9 | | −1 | −3 | −3 | −1 | | 9 | |

[2]

**(b)** On the grid, draw the graph of $y = x^2 + x - 3$ for $-4 \leqslant x \leqslant 4$.




[4]

**(c)** Write down the equation of the line of symmetry of the graph.

..... [1]

**(d)** Use your graph to solve the equation $x^2 + x - 3 = 0$.

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

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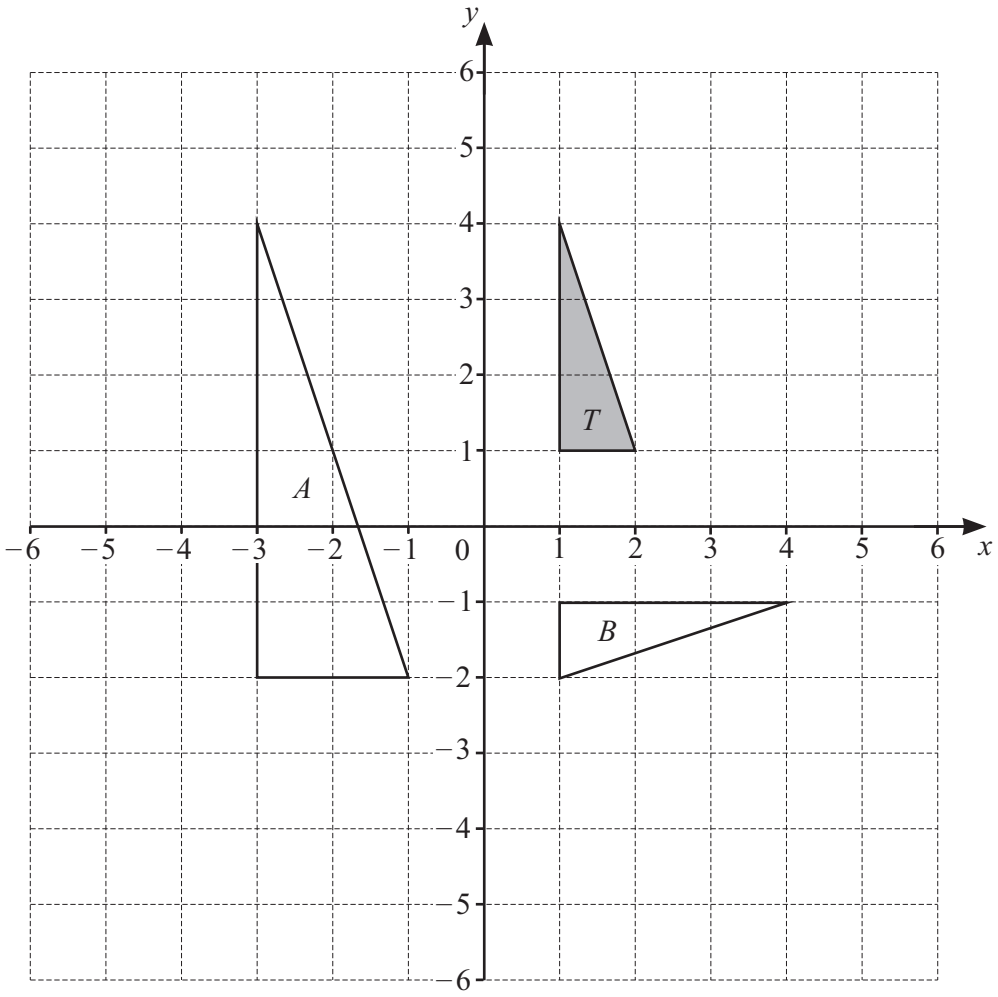


**(a)** On the grid, draw the image of triangle $T$ after a translation by the vector $\begin{pmatrix} 3 \\ -6 \end{pmatrix}$. [2]

**(b)** On the grid, draw the image of triangle $T$ after a reflection in the line $y = -1$. [2]

**(c)** Describe fully the **single** transformation that maps triangle $T$ onto triangle $A$.

.....

..... [3]

**(d)** Describe fully the **single** transformation that maps triangle $T$ onto triangle $B$.

.....

..... [3]

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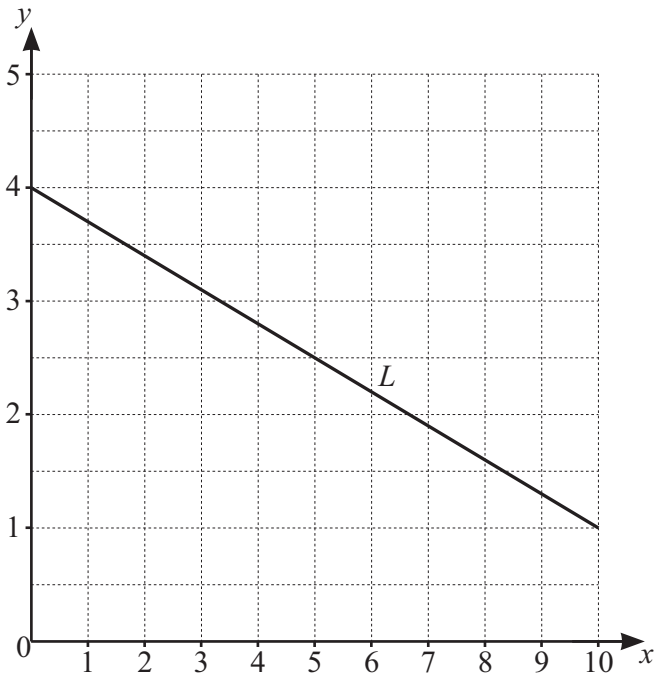
**20** The diagram shows line $L$ on a grid.




Find the equation of line $L$ in the form $y = mx + c$.

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

**21** **(a)** Make $T$ the subject of the formula.

$$P = Ty$$

$T =$ ..... [1]

**(b)** Expand the brackets and simplify.

$$(x + 8)(x - 5)$$

..... [2]

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**22** The time, $t$ seconds, for the winner of a race is 12.7 seconds, correct to 3 significant figures.

Complete this statement about the value of $t$.

..... $\leqslant t <$ ..... [2]

**23** Solve the simultaneous equations.

$$3x + 4y = 1$$
$$2x - 3y = 12$$

$x =$ .....

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

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