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

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

View solution

..... [1]

(b) a factor of 28

View solution

..... [1]

(c) a square number

View solution

..... [1]

(d) a prime number

View solution

..... [1]

(e) an irrational number.

View solution

..... [1]

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

View solution

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.

View solution

..... cents [1]

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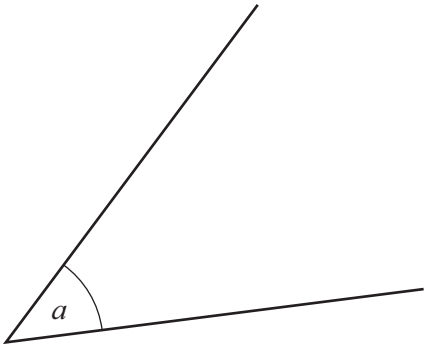
3



(a) Measure angle a.

View solution

..... [1]

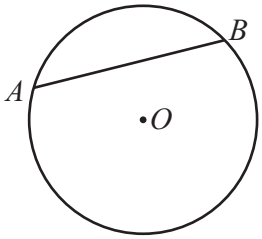
(b) Write down the mathematical name for this type of angle.

View solution

..... [1]

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

View solution



Write down the mathematical name for line AB.

..... [1]

(b) A quadrilateral has

View solution

- 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.

View solution

..... [1]

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

View solution

.....% [1]

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

View solution

..... [1]

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

View solution

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.

View solution

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

View solution

..... [1]

(iii) a number that is less than 20.

View solution

..... [1]

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

View solution

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 $25.7\,°C$.

View solution

Calculate the difference between these two temperatures.

..... °C [1]

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9 When Ahmed gets out of bed he takes

View solution

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

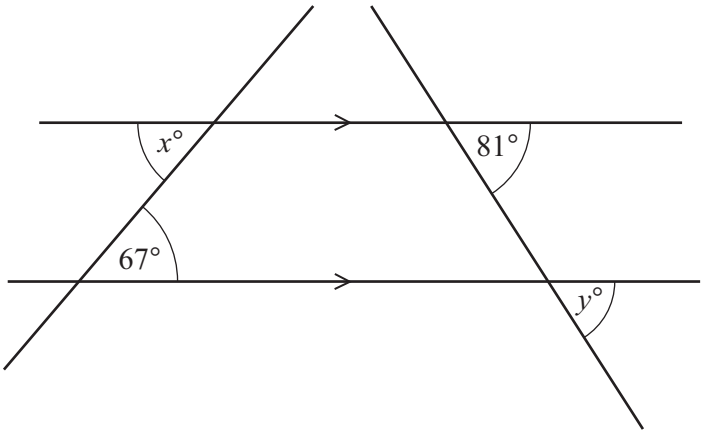
Ahmed must be at the station by 09 45.

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

..... [2]

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

View solution



NOT TO SCALE

Complete each of these statements with the correct geometrical reason.

$x = 67$ because .....

$y = 81$ because .....

[2]

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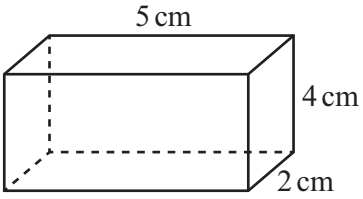
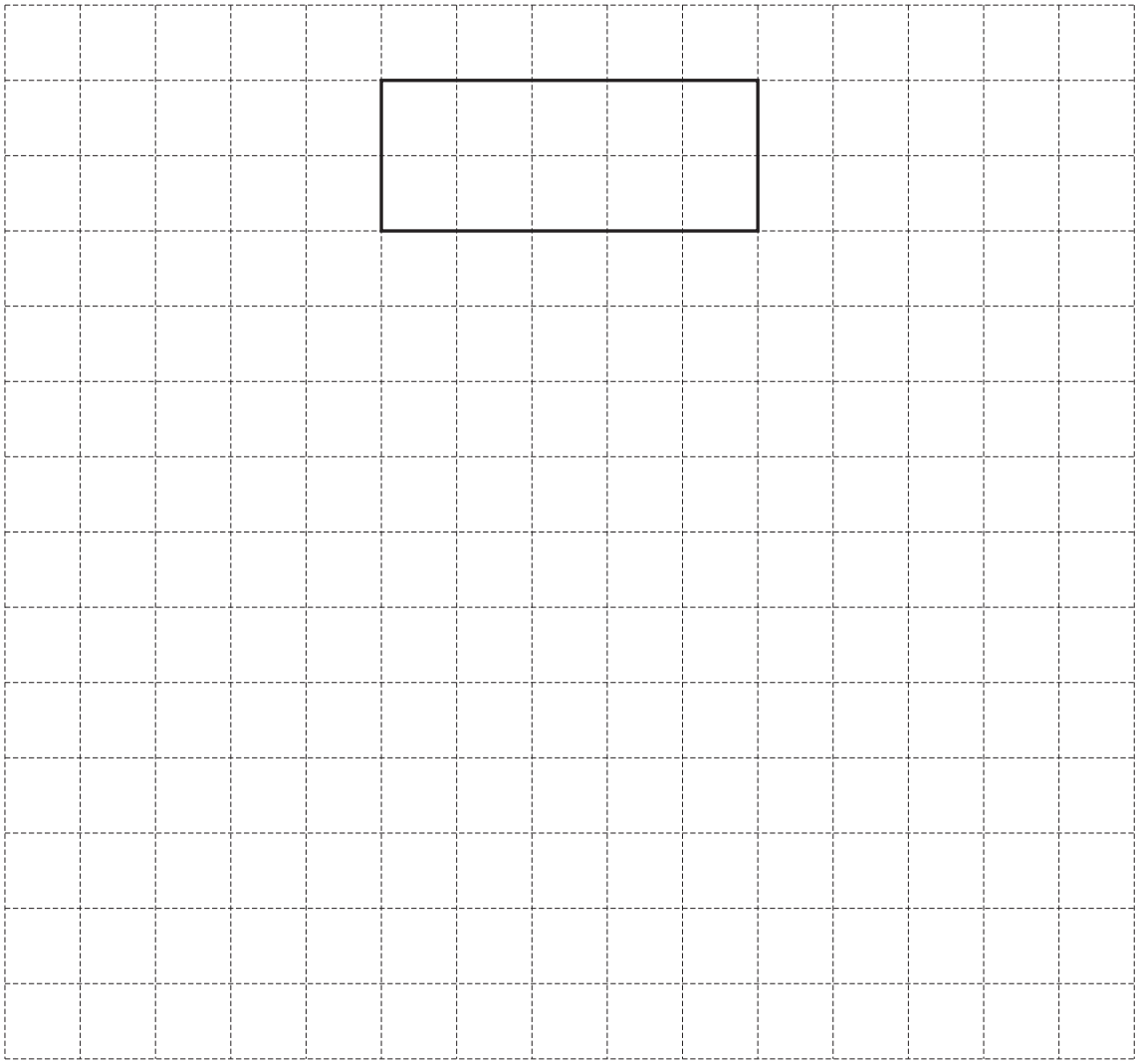
11



NOT TO SCALE

View solution

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.

View solution

..... cm [1]

(b) Find the mode.

View solution

..... cm [1]

(c) Find the median.

View solution

..... 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.

View solution

..... [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

View solution

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

..... [2]

View solution

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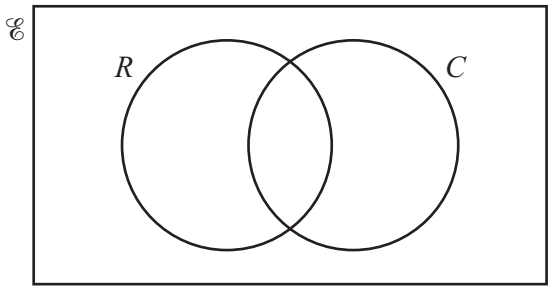
15 **(a)** 60 people complete a survey about hobbies.

View solution

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]

View solution

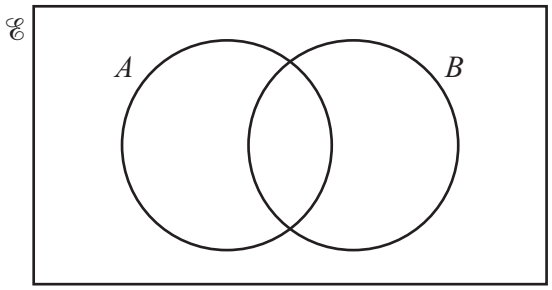
(ii) One of these 60 people is picked at random.

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

..... [1]

View solution

(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.

View solution

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

..... [3]

17 Work out.

View solution

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

Write your answer as a fraction in its simplest form.

..... [3]

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

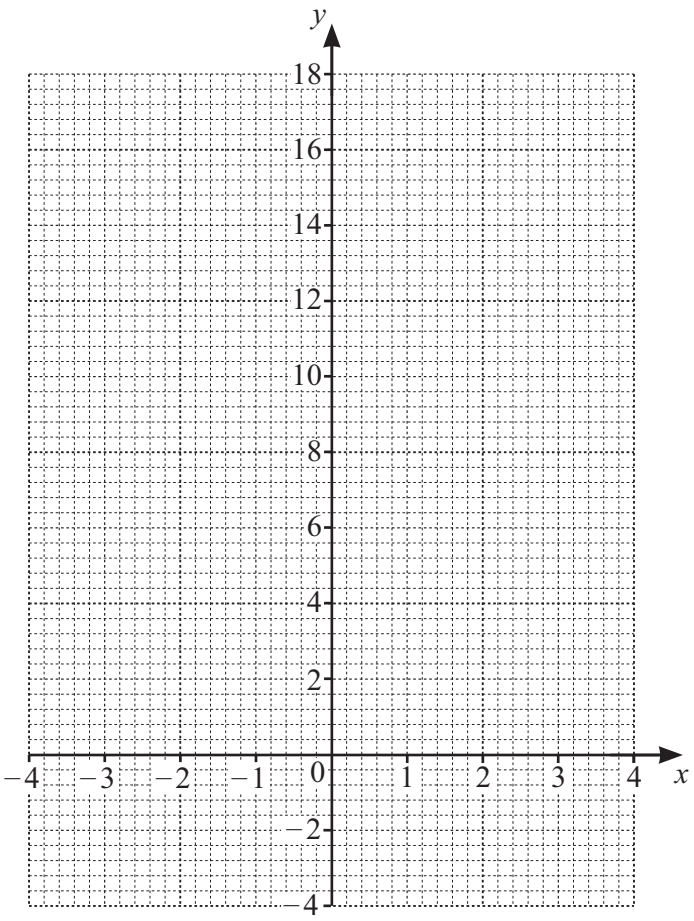
View solution

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 $-4 \leqslant x \leqslant 4$.

View solution



[4]

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

View solution

..... [1]

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

View solution

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

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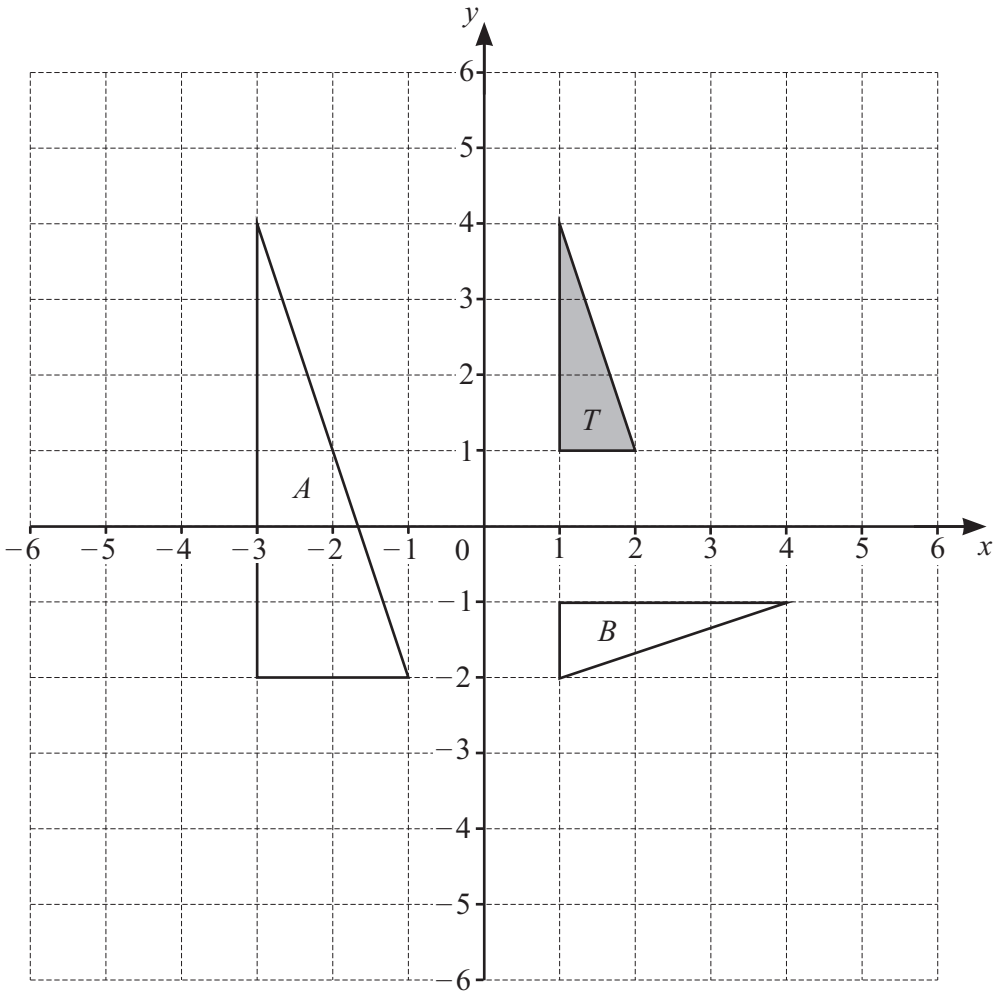
19



(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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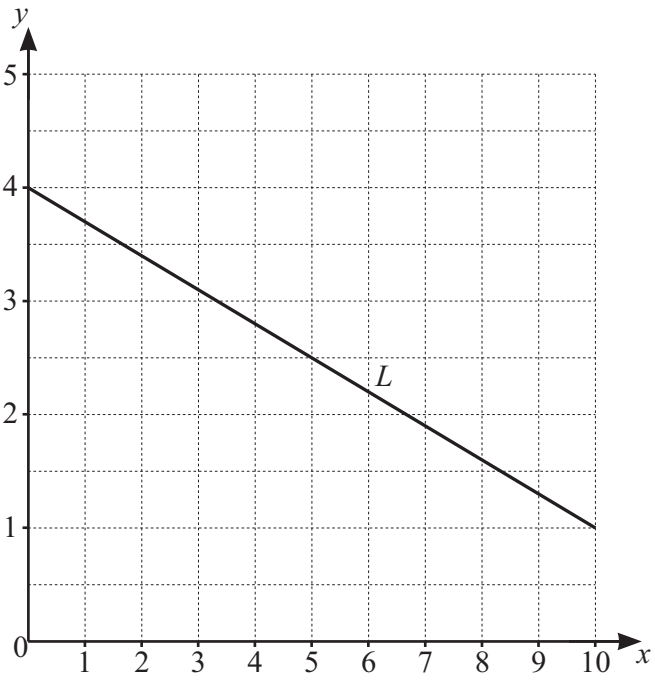
20 The diagram shows line L on a grid.

View solution



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

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

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

View solution

$$P = Ty$$

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

(b) Expand the brackets and simplify.

View solution

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

..... [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.

View solution

Complete this statement about the value of t.

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

23 Solve the simultaneous equations.

View solution

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

$x =$ .....

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

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