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MATHEMATICS **0580/13**

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 Write down the number that is 1 more than 4 999 499.

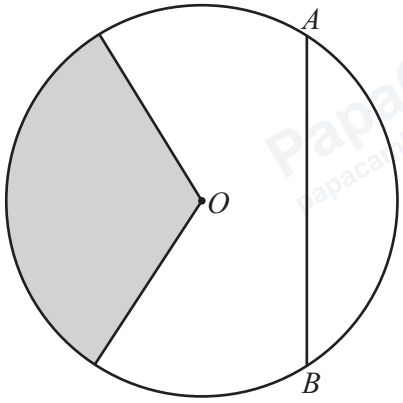
..... [1]

2 Write the number 707 700 in words.

.....

..... [1]

3



A and *B* are points on the circumference of a circle, centre *O*.

Write down the mathematical name for

(a) the line *AB*

..... [1]

(b) the shaded region.

..... [1]

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4 A car hire company uses this formula to work out the hire cost, in dollars.

cost = fixed charge + rate per day × number of days

Find the cost of hiring a car for 7 days when the fixed charge is \$140 and the rate per day is \$30.

\$ ..... [2]

5 Sam takes 75 minutes to make a cake.

The time taken to make the cake is in the ratio preparing : cooking : decorating = 6 : 10 : 9.

(a) Work out the number of minutes Sam takes to decorate the cake.

..... min [2]

(b) Sam starts making the cake at 12 42.

Find the time Sam finishes making the cake.

..... [1]

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6 A book has 420 pages.

Meg reads 14 pages each day.

Meg has read $\frac{1}{3}$ of the number of pages so far.

Find how many days it will take Meg to finish reading the rest of the book.

..... [3]

7 Raj records the temperature, in °C, at midday for each of 8 days.
These are the results.

1, 10, 8, –3, –2, 10, 7, 9

(a) Calculate the mean.

..... °C [2]

(b) Find the median.

..... °C [2]

(c) When another temperature is recorded, the range increases by 5.

Find the two possible values of this temperature.

.....°C or .....°C [2]

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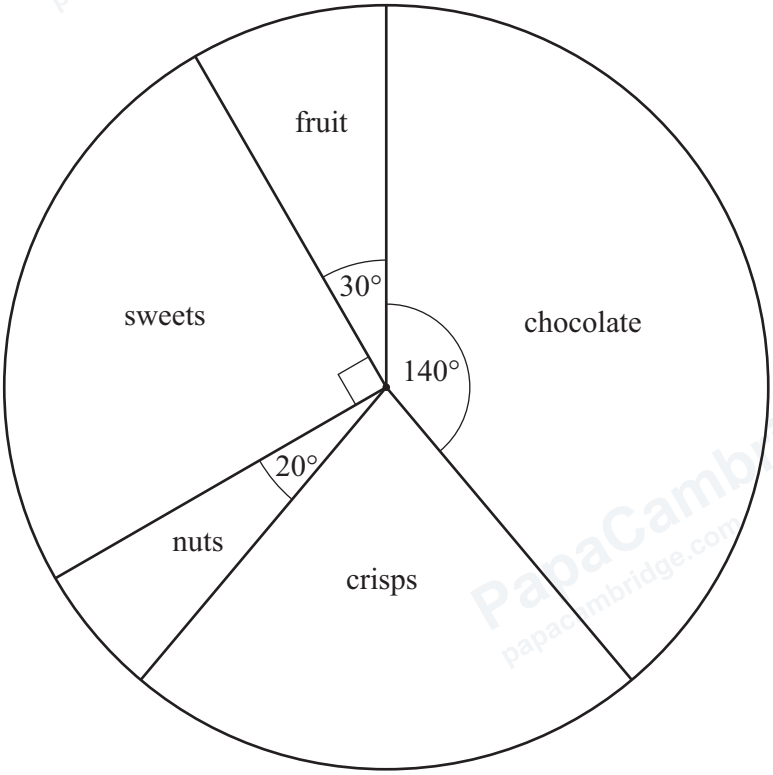
8 Ben asks some children to choose their favourite type of snack.
The pie chart shows the results.



(a) Measure the sector angle for crisps.

..... [1]

(b) Find the fraction of the children who chose chocolate.
Give your answer in its simplest form.

..... [2]

(c) 8 more children chose fruit than those who chose nuts.

Work out the number of children who chose fruit.

..... [2]

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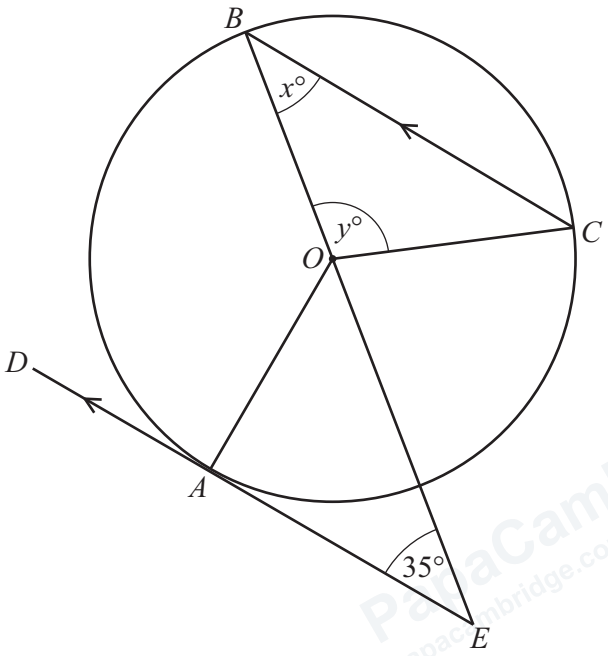

NOT TO SCALE

A, B and C are points on the circumference of the circle, centre O.

DAE is a tangent to the circle at A.
DE is parallel to BC.
BOE is a straight line.

(a) Write down the two geometrical reasons to explain why angle $AOE = 55°$.

1 .....

2 .....
[2]

(b) Find the value of x.

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

(c) Find the value of y.

$y =$ ..... [2]

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10 $K = 2x + \sqrt{y}$

Find the value of K when $x = 5$ and $y = 169$.

$K =$ ..... [2]

11 $\frac{2}{5}$ of the area of a shape is blue, $\frac{3}{7}$ is green and the rest is red.

(a) What fraction of the shape is red?

..... [3]

(b) $12\,\text{cm}^2$ of the shape is green.

Find the total area of the shape.

..... cm^2 [2]

12 Factorise.

$5c - 15c^2d$

..... [2]

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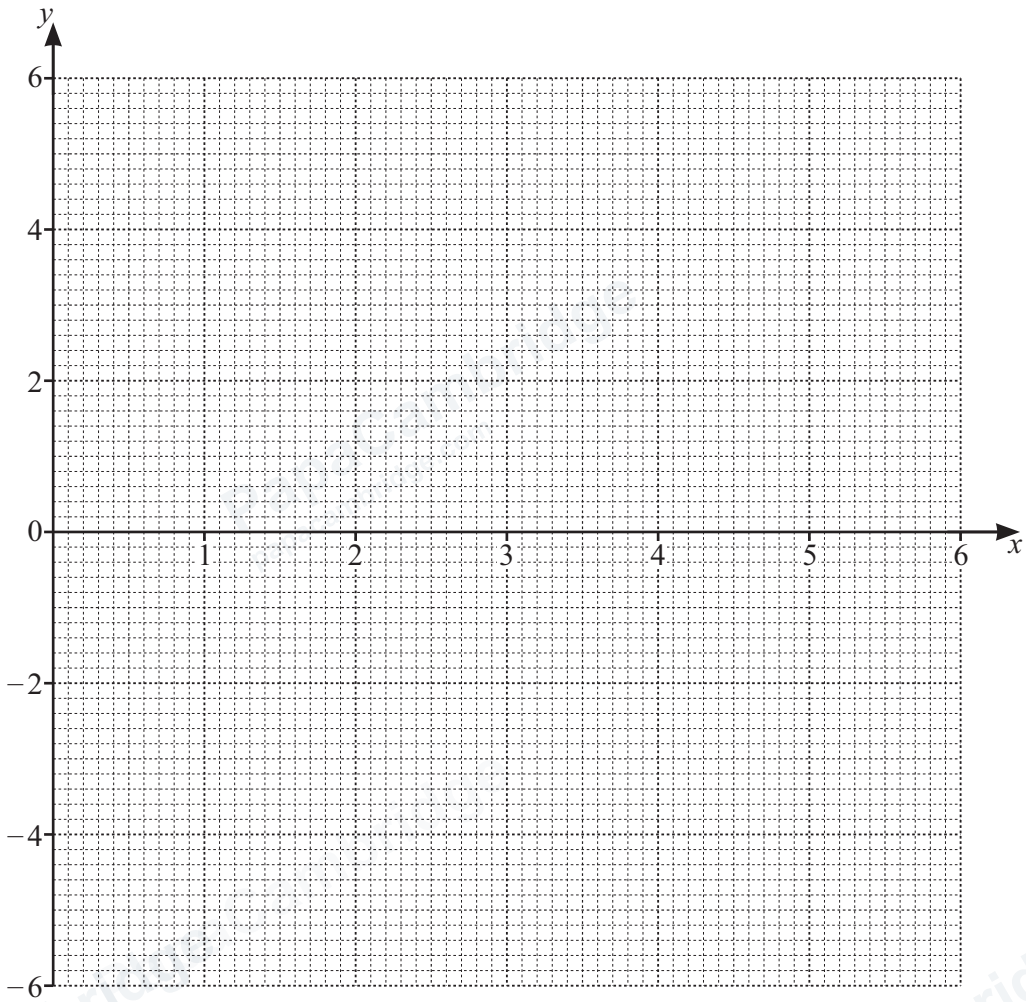
13 **(a)** Complete the table of values for $y = 6x - x^2 - 4$.

x	0	1	2	3	4	5	6
y				5	4	1	–4

[2]

(b) On the grid, draw the graph of $y = 6x - x^2 - 4$ for $0 \leqslant x \leqslant 6$.



[4]

(c) On the grid, draw the line $y = 3$. [1]

(d) Use your graph to solve $6x - x^2 - 4 = 3$.

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

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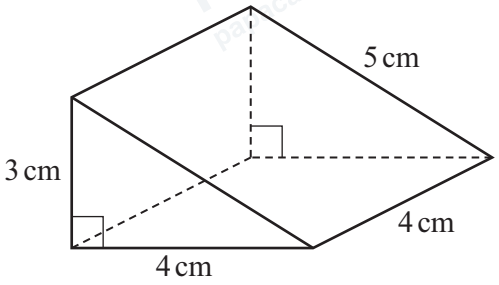
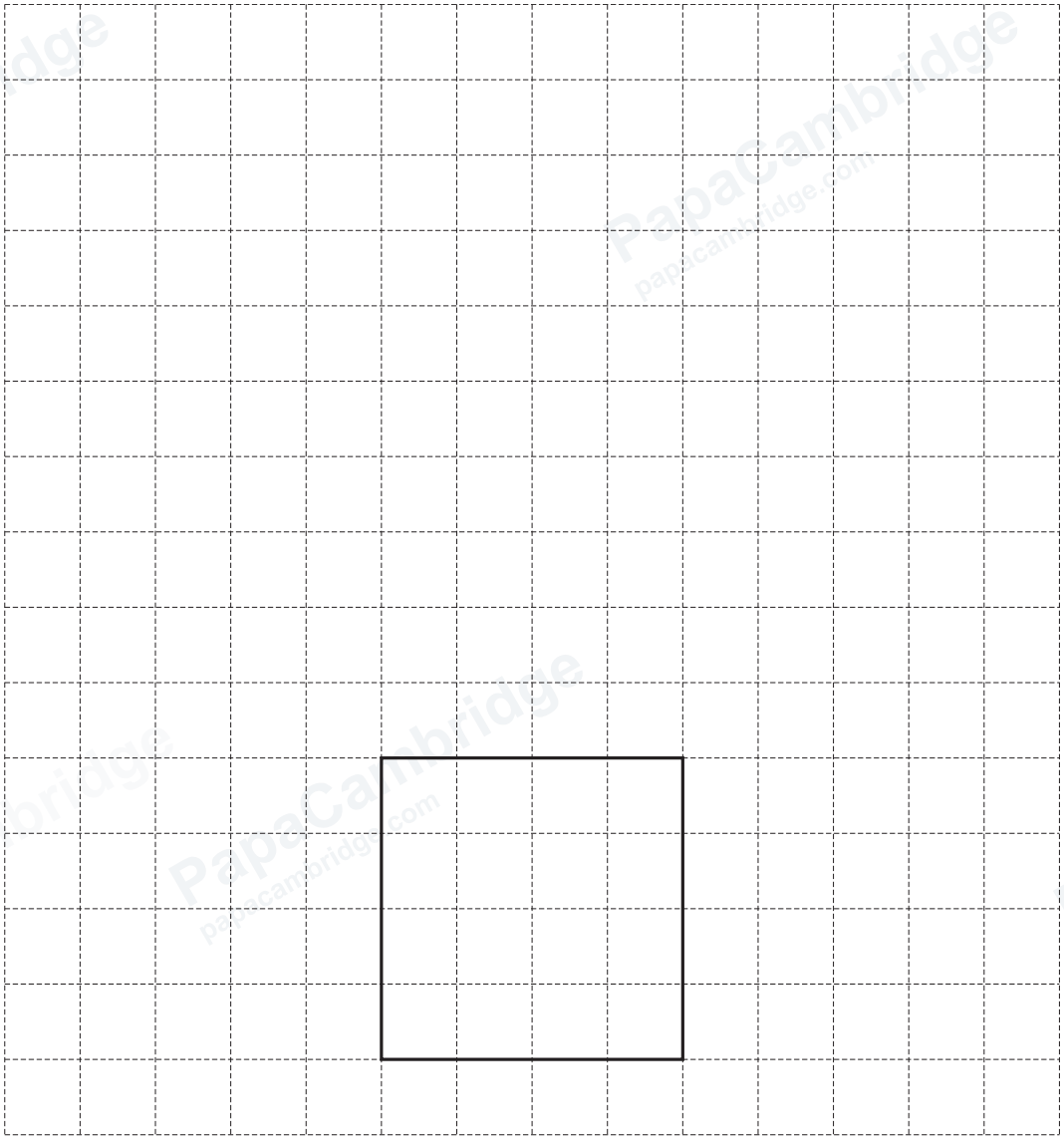
14 (a) The diagram shows a right-angled triangular prism.



NOT TO SCALE

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



[3]

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(b) Find the volume of the triangular prism.

..... cm^3 [2]

15 **(a)** In a restaurant the cost of a pizza is \$25.
The restaurant reduces the cost of the pizza to \$19.

Work out the percentage decrease in the cost.

..... % [2]

(b) In another restaurant, the cost of a pizza is \$15.
This restaurant adds a service charge of 10% to each pizza.

Find the cost of a pizza, including the service charge.

\$ ..... [2]

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16 The area of a circle is $36\pi\,\text{cm}^2$.

Find the radius of the circle.

..... cm [2]

17 Convert $850\,\text{cm}^3$ into litres.

..... litres [1]

18 **(a)** Write down the value of $\sqrt[3]{27}$.

..... [1]

(b) Write 5^{-1} as a decimal.

..... [2]

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19 **(a)** Write 84 as a product of its prime factors.

..... [2]

(b) 96 can be written as $2^P \times 3$.

Find the value of P.

$P =$ ..... [1]

(c) Use your answers to **19(a)** and **19(b)** to find the lowest common multiple (LCM) of 84 and 96.
Leave your answer as a product of prime numbers.

..... [1]

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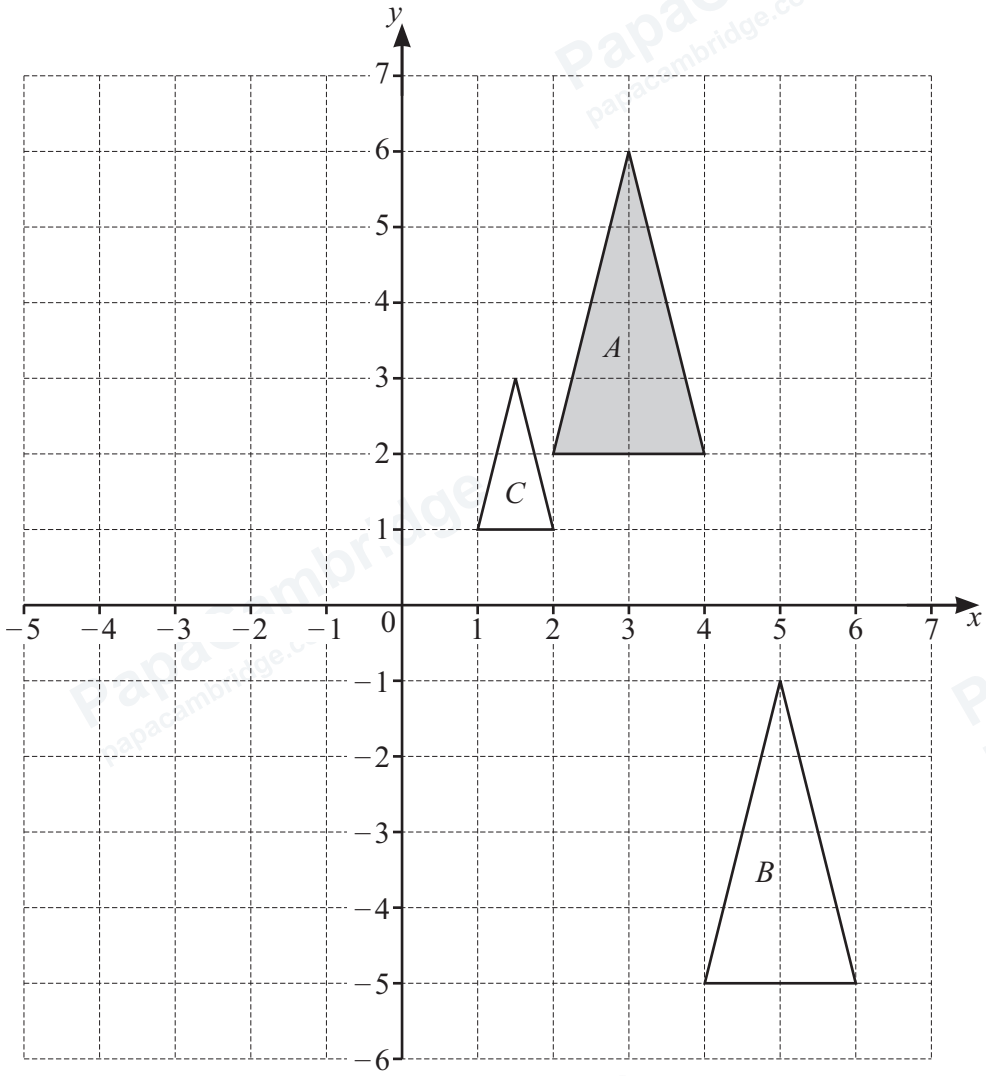

(a) Describe fully the **single** transformation that maps triangle *A* onto triangle *B*.

.....

..... [2]

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

.....

..... [3]

(c) On the grid, draw the image of shape *A* after a rotation 180°, centre (0, 0). [2]

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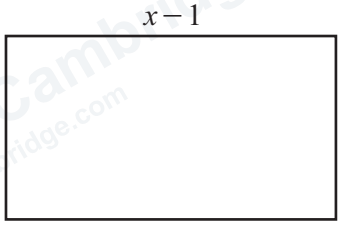
21 By writing each number in the calculation correct to 1 significant figure, find an estimate for the value of

$$\frac{341 \times 0.47}{9.8}.$$

..... [2]

22 In this question, all lengths are in centimetres.



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The area, in cm^2, of the rectangle is $5x + 8$.

Write an equation to show this information and solve it to find the value of x.

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

Question 23 is on the back page.

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23 Solve the simultaneous equations.

$$x + 5y = 9$$
$$4x + 6y = 1$$

$x =$ .....

$y =$ .....

[3]

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