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CAMBRIDGE
International Education

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CANDIDATE NAME

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CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/31**

Paper 3 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.
- You should use a graphic display calculator where appropriate.
- You may use tracing paper.
- You must show all necessary working clearly. You will be given marks for correct methods, including sketches, even if your answer is incorrect.
- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place for angles in degrees, unless a different level of accuracy is specified in the question.
- For π, use either your calculator value or 3.142.

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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1 Write $\frac{3}{5}$

(a) as a decimal

..... [1]

(b) as a percentage.

.....% [1]

2 **(a)** Work out $\frac{3.82 \times 5.23}{1.63 - 1.17}$.

Give your answer correct to the nearest 10.

..... [2]

(b) Work out $\frac{\sqrt{16.84} - 2.39}{5.26}$.

Give your answer correct to 2 decimal places.

..... [2]

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3 **(a)** These are the first 5 terms of a sequence.

7 13 19 25 31

(i) Write down the next term of this sequence.

..... [1]

(ii) Write down the rule for finding the next term of this sequence.

..... [1]

(iii) Find the nth term of this sequence.

..... [2]

(b) The nth term of another sequence is $2n^2 - 1$.

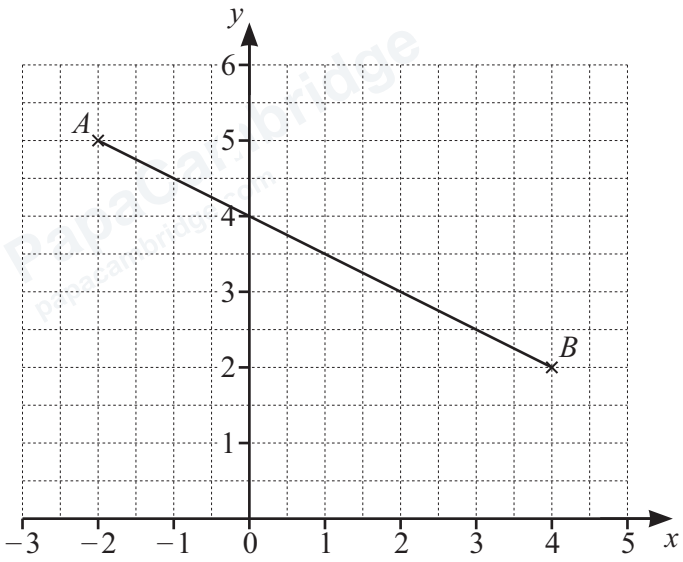
Work out the first 3 terms of this sequence.

..... , ... , ... [2]

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4 The line AB is drawn on a square grid.



(a) Write down the coordinates of point B.

(..... , ...) [1]

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

(..... , ...) [1]

(c) Find the equation of the line AB.
Give your answer in the form $y = mx + c$.

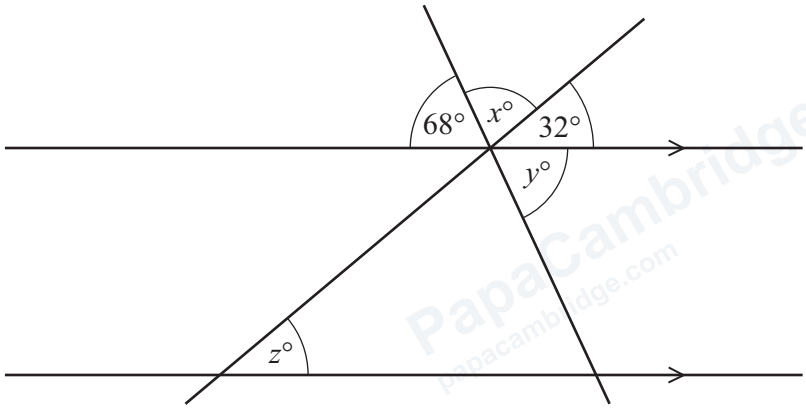
$y =$ ..... [2]

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5



NOT TO SCALE

The diagram shows 2 straight lines crossing 2 parallel lines.

Find the values of x, y and z.

$x =$ .....

$y =$ .....

$z =$ .....

[3]

6 Mateuse buys 5 chocolate bars.
These chocolate bars are all the same price.
Mateuse pays with \$10 and receives \$2.20 change.

Work out the cost of each of these chocolate bars.

\$ ..... [2]

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7 The age of each of 15 doctors is shown in the stem-and-leaf diagram.

2	7	8	8		
3	4	5	6	8	9
4	2	4	7	8	
5	3	7	9		

key 2 | 7 = 27

(a) Write down the most common age.

..... [1]

(b) Find

(i) the median

..... [1]

(ii) the lower quartile.

..... [1]

(c) Calculate the mean.

..... [2]

8 **(a)** Find 8% of \$640.

\$..... [1]

(b) Work out 35 as a percentage of 250.

.....% [1]

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9 Ryan is paid \$12 each day to pick asparagus.
The asparagus Ryan picks is weighed.
Ryan is also paid \$1.50 for each kilogram of asparagus he picks.

(a) One day Ryan picks 23 kg of asparagus.

Work out how much he is paid in total that day.

\$ ..... [2]

(b) Ryan works for D days and picks a total of A kg of asparagus.
Ryan is paid a total of \$$P$.

Write down a formula for P in terms of D and A.

$P =$ ..... [2]

(c) Ryan works for 5 days and is paid a total of \$189.

Work out how many kilograms of asparagus Ryan picks in these 5 days.

..... kg [2]

10 A sphere has radius 7.3 cm.

Work out the surface area of this sphere.

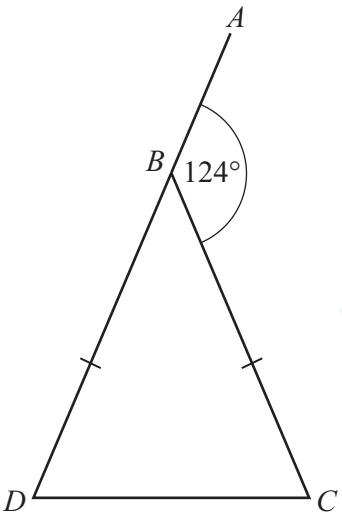
..... cm^2 [2]

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NOT TO SCALE

ABD is a straight line.
BCD is an isosceles triangle.
Angle *ABC* = 124°.

Find the size of angle *BCD*.

angle *BCD* = ... [2]

12 Sundeep throws a biased 6-sided die.
The table shows the probability of the die landing on each number.

number	1	2	3	4	5	6
probability	$\frac{11}{72}$	$\frac{13}{72}$	$\frac{8}{72}$	$\frac{10}{72}$	$\frac{14}{72}$	$\frac{x}{72}$

(a) Find the value of x.

x = ... [1]

(b) Sundeep throws this die 180 times.

Find the expected number of times this die lands on 4.

..... [1]

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13 Lavinia leaves home at 18 25 to go to the cinema.
The cinema is 750 metres from Lavinia's home.
Lavinia walks at an average speed of 5 km/h.

Calculate the time Lavinia arrives at the cinema.

..... [3]

14 **(a)** $63000 = 6.3 \times 10^{x}$.

Write down the value of x.

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

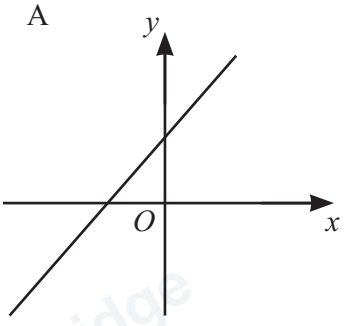
(b) Work out $\dfrac{(2.8 \times 10^{4})}{(5.6 \times 10^{-2})}$.

Give your answer in standard form.

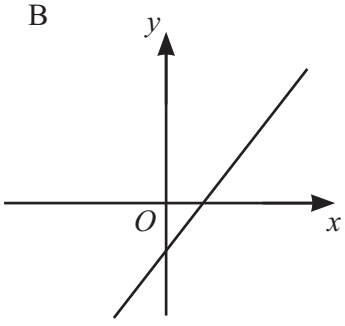
..... [2]

15 Diagrams A, B and C each show a straight-line graph.

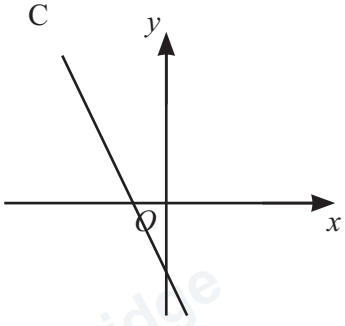
A



B



C



Write down the letter of the diagram which shows the line with equation $y = 2x - 3$.

..... [1]

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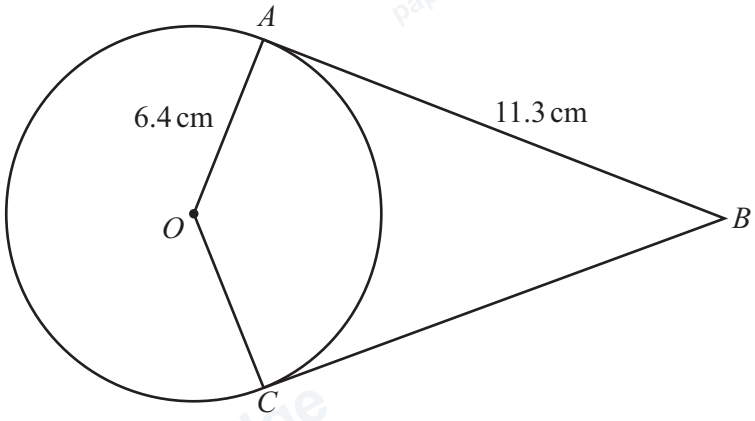
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NOT TO SCALE

AB and *CB* are tangents to the circle with centre *O* and radius 6.4 cm.
AB is 11.3 cm.

(a) Write down the length of *CB*.

..... cm [1]

(b) Give a geometrical reason why angle $OAB = 90°$.

..... [1]

(c) Work out the size of angle *ABC*.

angle *ABC* = ... [3]

(d) Work out the length of *OB*.

OB = ... cm [2]

(e) Work out the area of *OABC*.

..... cm^2 [1]

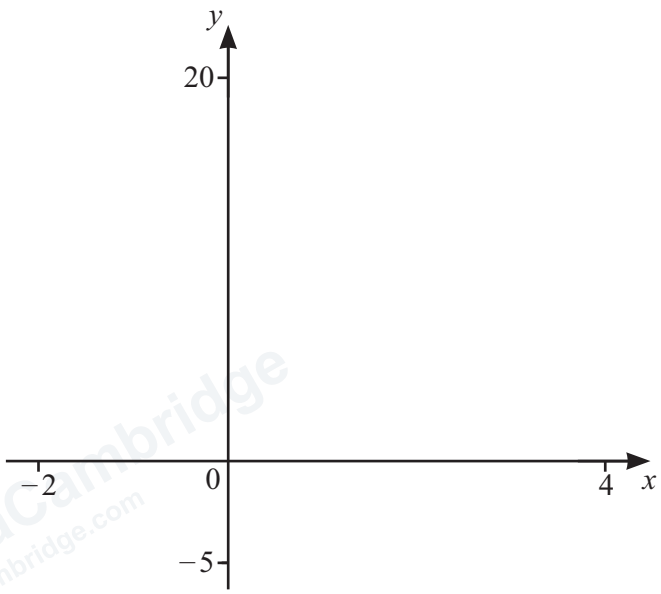
Question 17 is on the back page.

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(a) On the diagram, sketch the graph of $y = 2x^2 - 5x + 1$ for values of x between -2 and 4. [2]

(b) Find the x-coordinates of the points where the graph crosses the x-axis.

..... and ..... [2]

(c) Find the x-coordinate of the local minimum.

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

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