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International Education

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CAMBRIDGE INTERNATIONAL MATHEMATICS **0607/32**

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

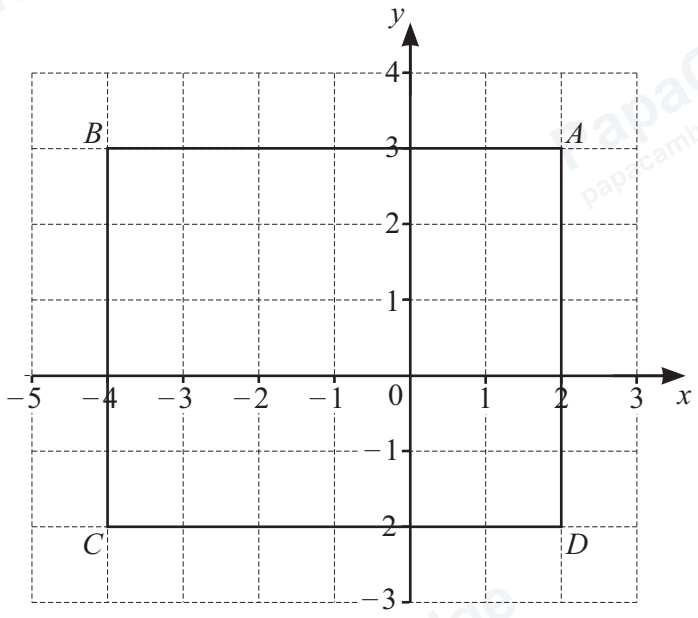
Area, A, of triangle, base b, height h.	$A = \frac{1}{2}bh$
Area, A, of circle of radius r.	$A = \pi r^2$
Circumference, C, of circle of radius r.	$C = 2\pi r$
Curved surface area, A, of cylinder of radius r, height h.	$A = 2\pi rh$
Curved surface area, A, of cone of radius r, sloping edge l.	$A = \pi rl$
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 Quadrilateral *ABCD* is drawn on a 1 cm square grid.



(a) Write down the mathematical name for quadrilateral *ABCD*.

..... [1]

(b) Write down the coordinates of point *A* and the coordinates of point *C*.

A (..... , ...)

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

(c) Work out the perimeter and the area of quadrilateral *ABCD*.

perimeter = ... cm

area = ... cm^2
[2]

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2 **(a)** Write the number 76 203 in words.

..... [1]

(b) Write down a multiple of 3 between 20 and 30.

..... [1]

(c) Write down a cube number between 20 and 30.

..... [1]

(d) Write down a prime number between 20 and 30.

..... [1]

3

A	16% of \$360

B	$\frac{2}{9}$ of \$360

Work out which is greater, A or B, and by how much.
Show how you decide.

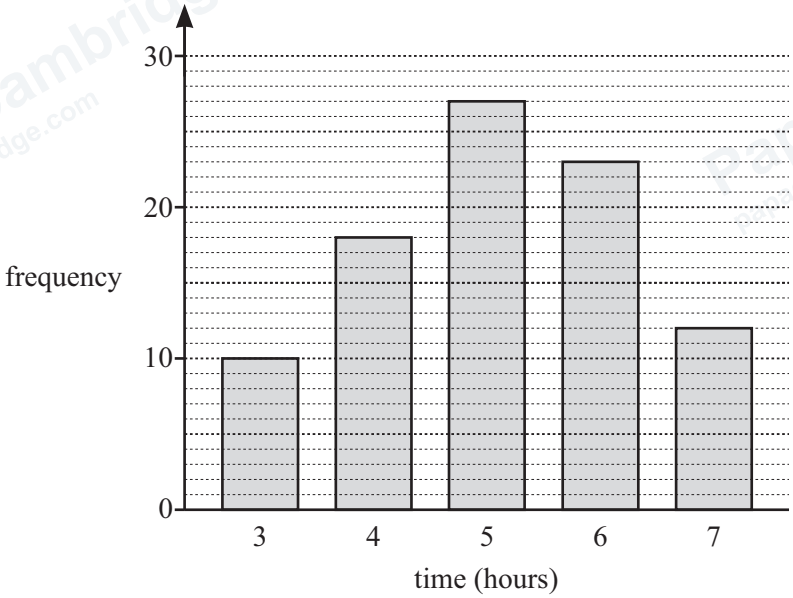
..... is greater by \$ ..... [3]

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4 Some runners take part in a marathon race.
The bar chart shows their times, correct to the nearest hour.



(a) Write down how many runners had a time of 4 hours.

..... [1]

(b) Write down the most common time.

..... hours [1]

(c) Work out the total number of runners.

..... [1]

(d) One of the runners is chosen at random.

Find the probability that this runner had a time of 5 hours.
Give your answer as a fraction in its simplest form.

..... [2]

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5 **(a)** Write $2\,\text{kg} : 550\,\text{g}$ as a ratio in its simplest form.

..... : ..... [2]

(b) A bronze statue has a mass of 171 g.
Bronze is made from copper and tin in the ratio copper : tin = 8 : 1.

Work out the mass of copper in the statue.

..... g [2]

6 **(a)** Work out.

$$\sqrt[3]{3375}$$

..... [1]

(b) Work out.

$$\frac{1}{3.5^2}$$

Give your answer correct to 3 decimal places.

..... [2]

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7 **(a)** Simplify.

$3x + 2y + x - 5y$

..... [2]

(b) Factorise.

$3p - 18$

..... [1]

(c) Multiply out the brackets and simplify.

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

..... [2]

8 Vikram invests $3500 in an account paying simple interest at a rate of 2.5% per year.

Work out the value of the investment at the end of 5 years.

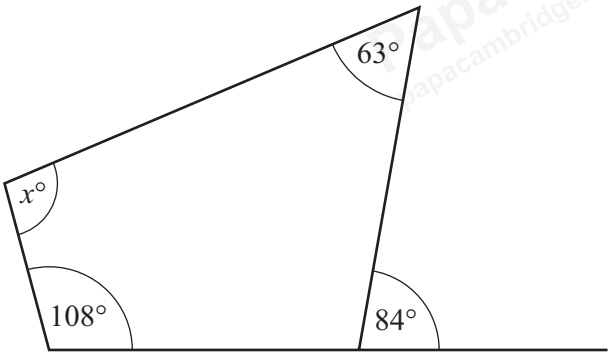
$ ..... [3]

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9 The diagram shows a quadrilateral with one side extended.



NOT TO SCALE

Find the value of x.

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

10 $y = \frac{x}{2} - 3$

(a) Find the value of y when $x = -9$.

$y =$ ..... [1]

(b) Rearrange the formula to make x the subject.

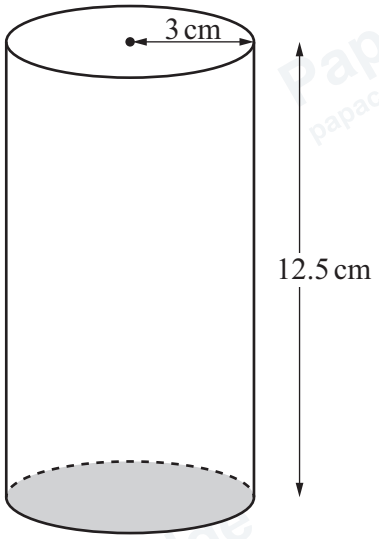
$x =$ ..... [2]

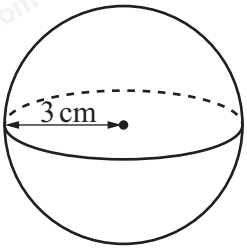
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11





NOT TO SCALE

A tube, in the shape of a cylinder, has radius 3 cm and height 12.5 cm.
A tennis ball is a sphere of radius 3 cm.
2 tennis balls are put into the tube.

Calculate the volume of the empty space inside the tube.

..... cm^3 [5]

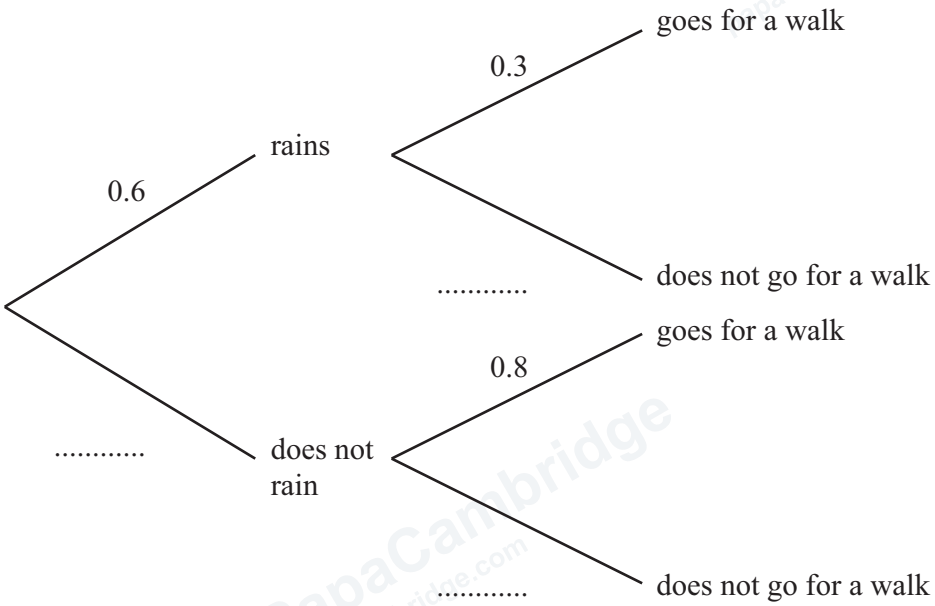
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12 The probability that it rains on any day is 0.6 .
If it rains, the probability that Jill goes for a walk is 0.3 .
If it does not rain, the probability that Jill goes for a walk is 0.8 .

(a) Complete the tree diagram.



[2]

(b) Find the probability that it does not rain and Jill does not go for a walk.

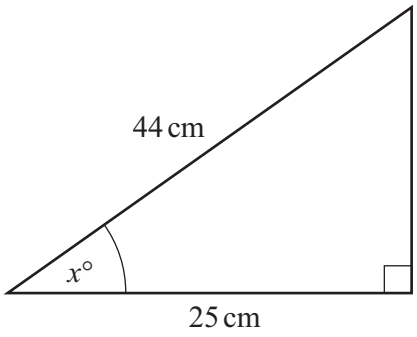
..... [1]

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13 (a)

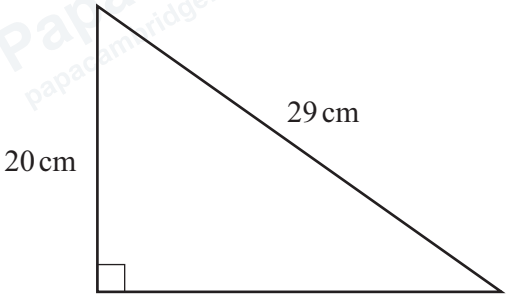


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Use trigonometry to find the value of x.

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

(b)



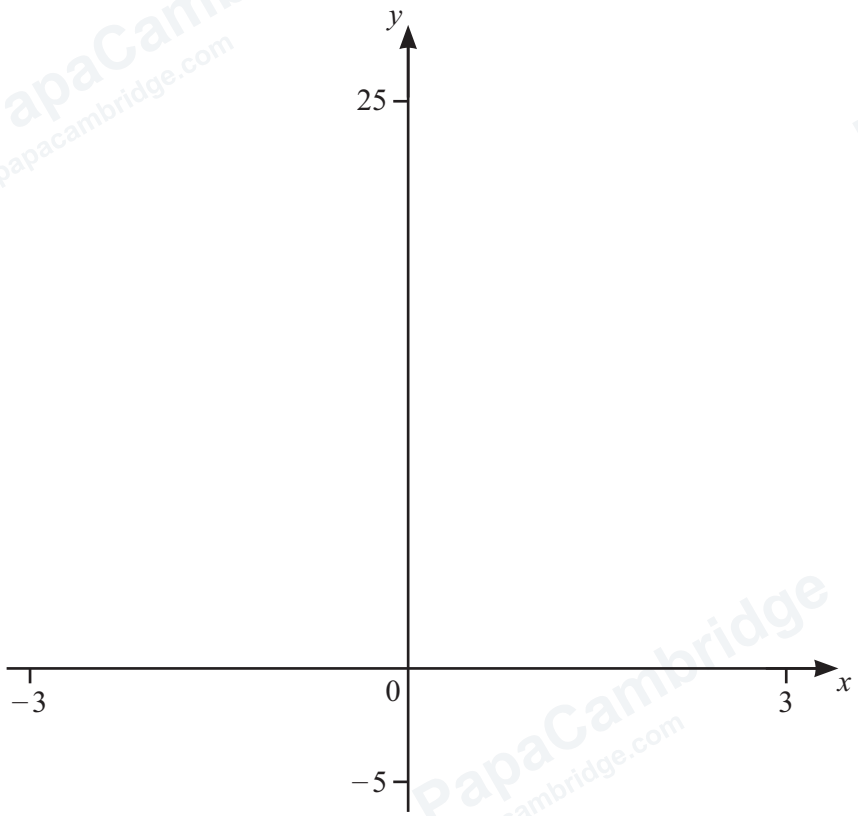
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Work out the perimeter of this triangle.

..... cm [4]

Question 14 is on the back page.

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(a) **(i)** On the diagram, sketch the graph of $y = x^2 + 2$ for values of x between -3 and 3. [2]

(ii) Find the coordinates of the local minimum.

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

(b) On the diagram, sketch the graph of $y = x^3 + x^2 - 5x + 2$ for values of x between -3 and 3. [2]

(c) Use your graph to solve this equation.

$$x^3 + x^2 - 5x + 2 = x^2 + 2$$

x = ... , x = ... , x = ... [3]

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