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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.

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 .

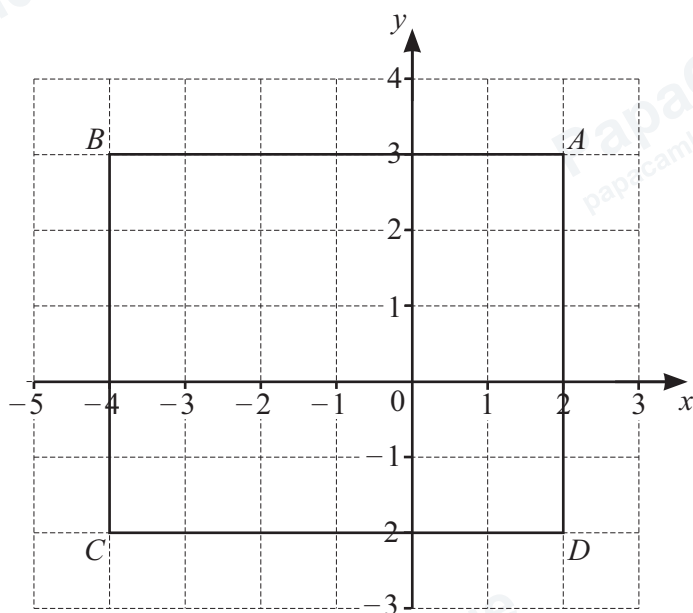
$$V = \frac{1}{3}\pi r^2 h$$

Volume, V , of sphere of radius r .

$$V = \frac{4}{3}\pi r^3$$



- 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]



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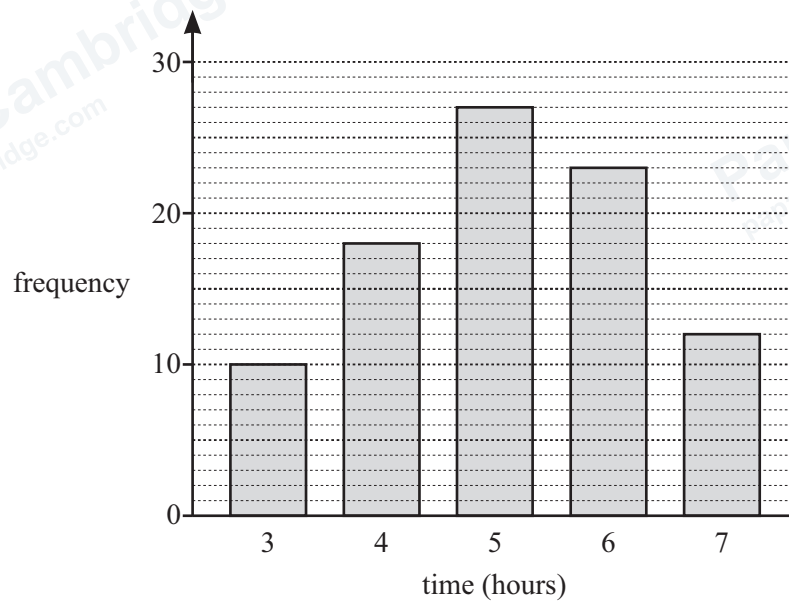
B	$\frac{2}{9}$ of \$360
---	------------------------

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

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



- 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]

5 (a) Write 2 kg : 550 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]





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]

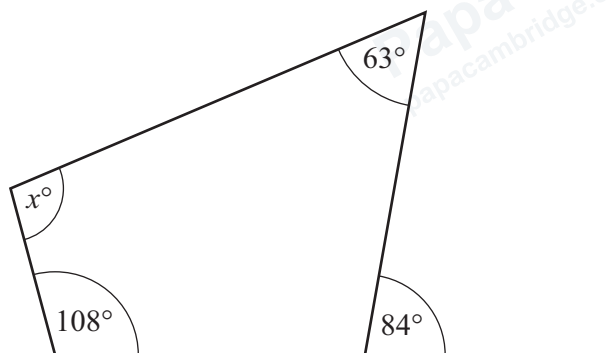
8 Vikram invests \$3500 in an account paying simple interest at a rate of 2.5% per year.

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

\$ [3]



- 9 The diagram shows a quadrilateral with one side extended.



NOT TO SCALE

Find the value of x .

$$x = \dots\dots\dots [3]$$

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

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

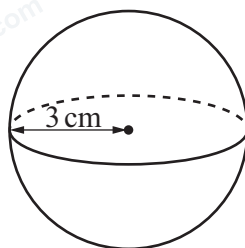
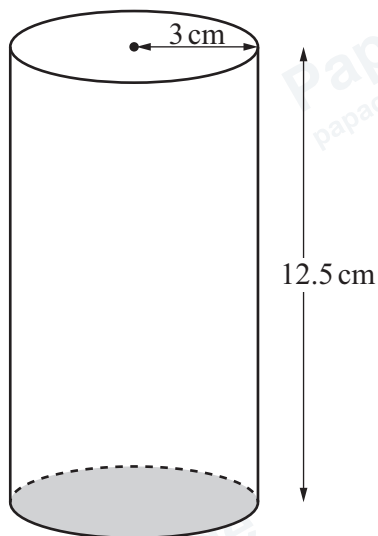
$$y = \dots\dots\dots [1]$$

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

$$x = \dots\dots\dots [2]$$



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.

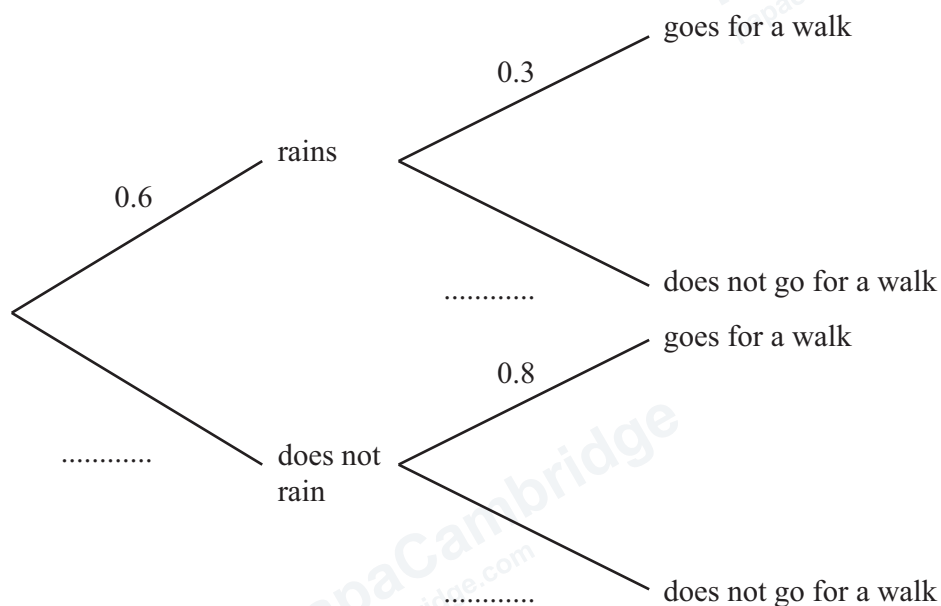
Calculate the volume of the empty space inside the tube.

..... cm^3 [5]



- 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.



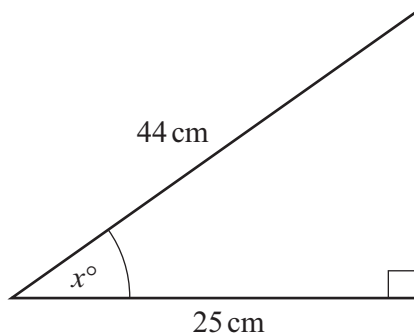
[2]

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

..... [1]



13 (a)

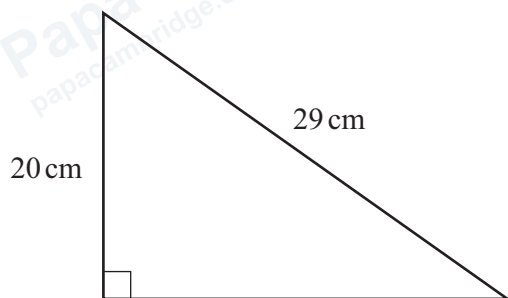


NOT TO SCALE

Use trigonometry to find the value of x .

$x = \dots\dots\dots$ [2]

(b)

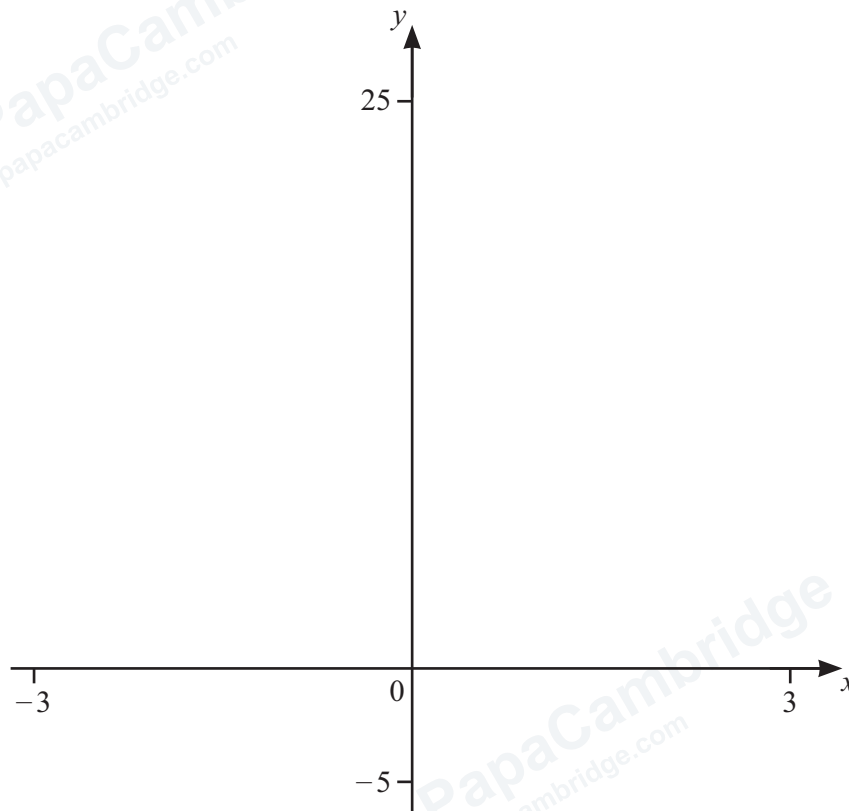


NOT TO SCALE

Work out the perimeter of this triangle.

$\dots\dots\dots$ cm [4]

Question 14 is on the back page.



(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.

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

$x = \dots\dots\dots$, $x = \dots\dots\dots$, $x = \dots\dots\dots$ [3]

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