



Cambridge IGCSE™

CANDIDATE
NAME

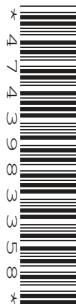


CENTRE
NUMBER

--	--	--	--	--

CANDIDATE
NUMBER

--	--	--	--



CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/13

Paper 1 Non-calculator (Core)

May/June 2025

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 or correction fluid.
- 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. You will be given marks for correct methods even if your answer is incorrect.

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 .

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



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

- 1 (a) Write these numbers in order of size, starting with the smallest.

0.506 0.65 0.065 0.6 0.56

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

- (b) Write 0.6 as a percentage.

..... % [1]

- (c) Write 0.56 as a fraction in its simplest form.

..... [2]

- 2 (a) Write 2780 correct to the nearest 100.

..... [1]

- (b) Write 2780 in standard form.

..... [1]





4

3 Sophie records the lowest temperature, in $^{\circ}\text{C}$, each day during one week.

4 6 6 7 9 11 13

(a) Work out the range.

..... $^{\circ}\text{C}$ [1]

(b) Find the median.

..... $^{\circ}\text{C}$ [1]

(c) Work out the mean.

..... $^{\circ}\text{C}$ [2]

4 These are the first 5 terms of a sequence.

2 6 10 14 18

(a) Write down the next term in this sequence.

..... [1]

(b) Find an expression for the n th term of this sequence.

..... [2]





5

(a) Liu buys 2 adult tickets and 3 child tickets.

Find the change from \$50.

\$ [3]

(b) Chris pays \$66 for 4 child tickets and some adult tickets.

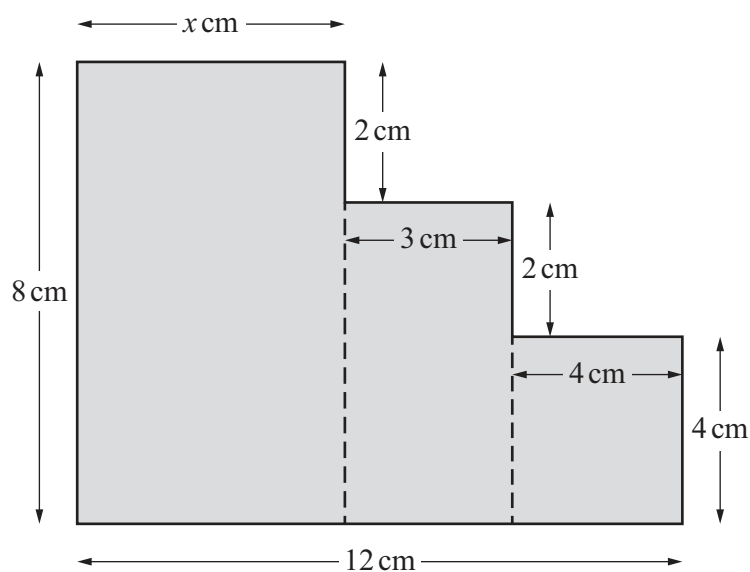
Work out how many adult tickets she buys.

..... [2]





NOT TO
SCALE



- (a)** Show that $x = 5$.

[1]

- (b)** Find the perimeter of the shape.

..... cm [1]

- (c) Find the total area of the shape.

..... cm² [3]



7

$$7 \quad T = 3x - 4y$$

- (a) Find the value of T when $x = 5$ and $y = -2$.

$$T = \dots\dots\dots [2]$$

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

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

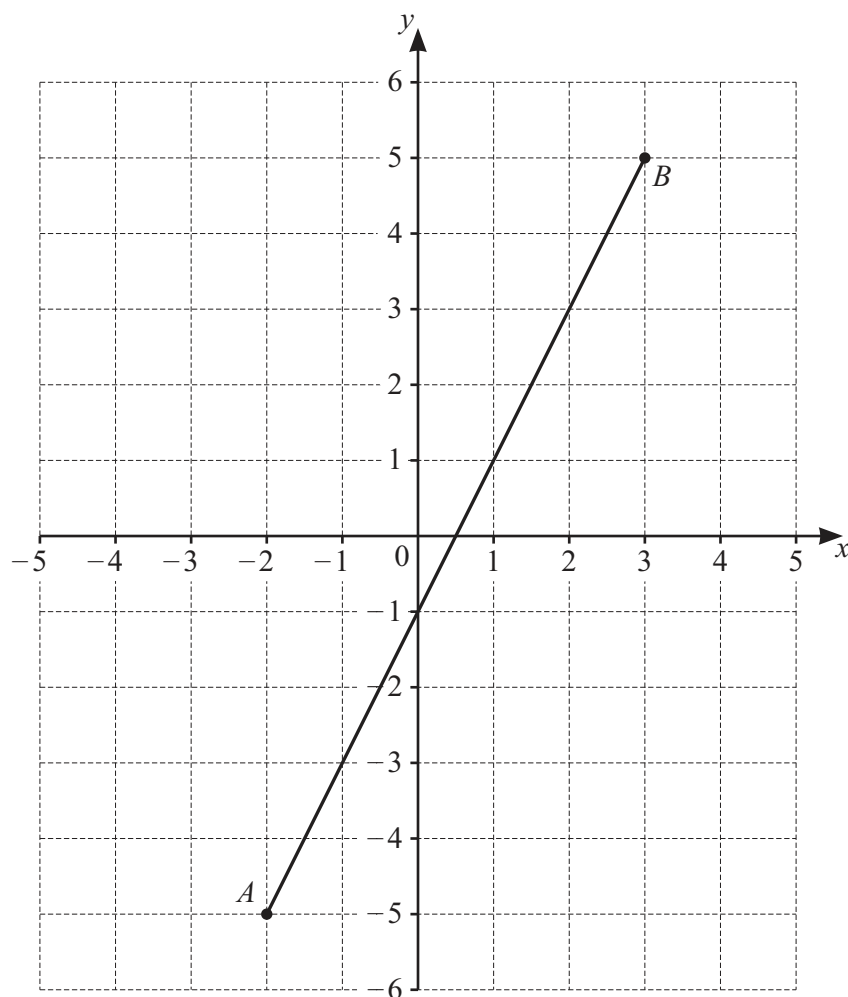
- 8 Divide \$135 in the ratio 5 : 4.

$$\text{\$} \dots\dots\dots$$

$$\text{\$} \dots\dots\dots$$

[2]





The line AB is drawn on a square grid.

(a) Write down the coordinates of point A and point B .

A (..... ,)

B (..... ,) [2]

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

(..... ,) [1]

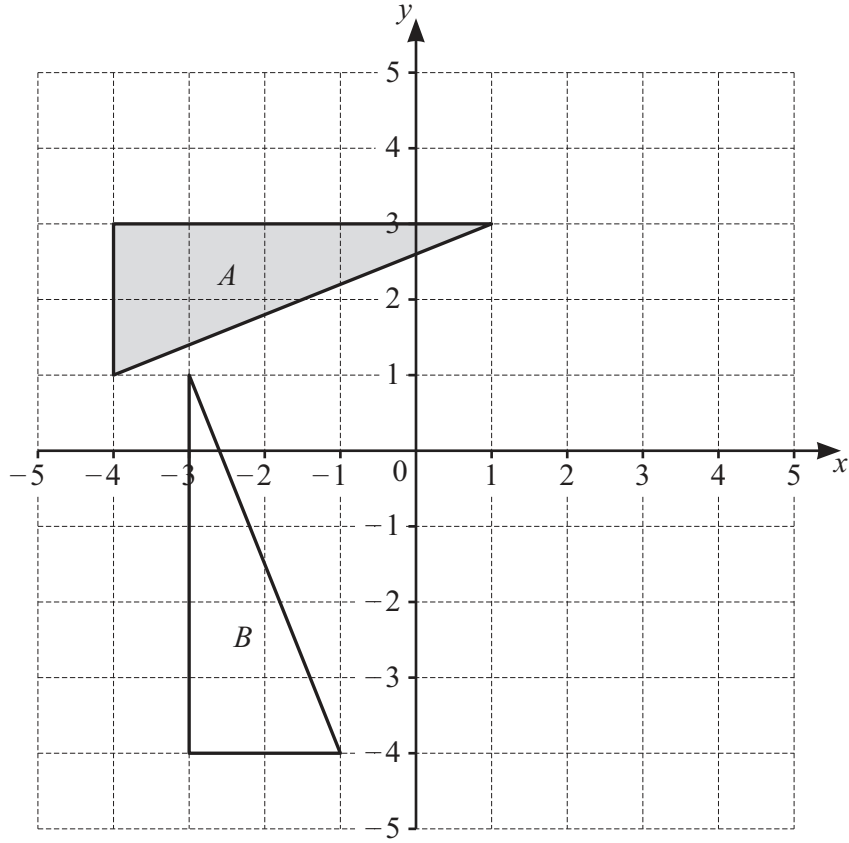
(c) Work out the gradient of the line AB .

..... [2]

(d) Find the equation of the line AB .

..... [2]





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

.....
..... [3]

(b) Translate triangle *A* by the vector $\begin{pmatrix} 3 \\ -4 \end{pmatrix}$.

[2]





10



- 11 Sajid drives 10 km at a speed of 20 km/h.
He then drives 200 km at a speed of 80 km/h.

(a) Show that Sajid takes $\frac{1}{2}$ hour to drive the first 10 km.

[1]

(b) Work out his average speed for the whole journey.

..... km/h [4]

- 12 (a) Simplify.

$$3x + 5x - 7x$$

..... [1]

(b) Expand and simplify.

$$2(x + 3) + 3(x + 1)$$

..... [2]

(c) Simplify.

$$15x^6 \div 3x^2$$

..... [2]





11



13 (a) Write 60 as a product of its prime factors.

..... [2]

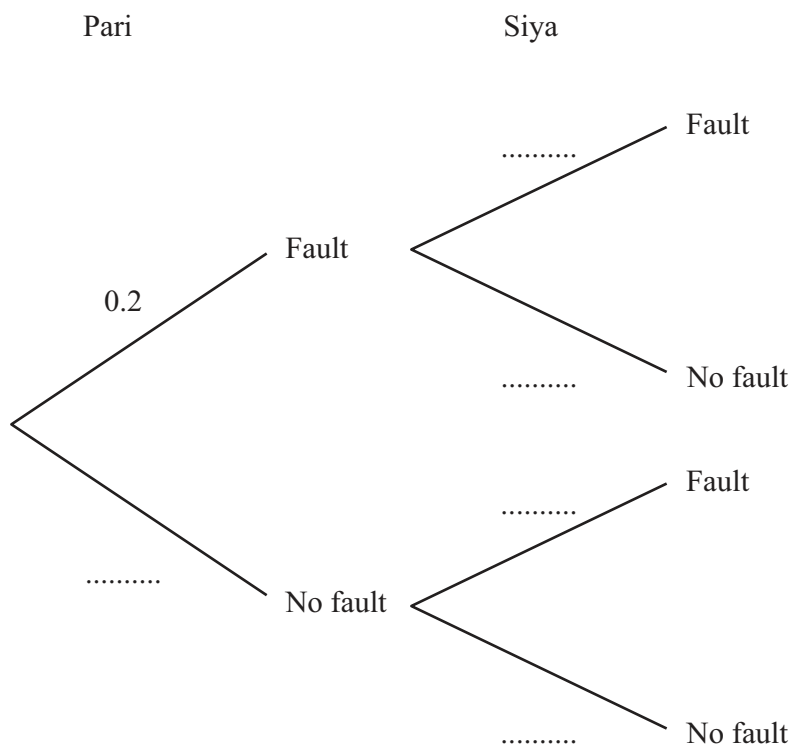
(b) Find the lowest common multiple (LCM) of 60 and 24.

..... [2]

Question 14 is printed on the next page.



- (a) Complete this tree diagram.



[2]

- (b)** Find the probability that both Pari and Siya have no fault on their phones in the first year.

..... [2]

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

© UCLES 2025

