Cambridge Assessment International Education

Cambridge Primary Checkpoint

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER			

1505118908

MATHEMATICS **0096/01**

Paper 1 **October 2024**

45 minutes

You must answer on the question paper.

You will need: Compasses
Protractor
Tracing paper (optional)

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.
- You should show all your working in the booklet.
- You are **not** allowed to use a calculator.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **20** pages. Any blank pages are indicated.

1 Calculate

$$(3 + 2) \times 5$$

..... [1]

2 Chen subtracts $\frac{3}{10}$ from 7.5

Write his answer as a decimal.

..... [1]

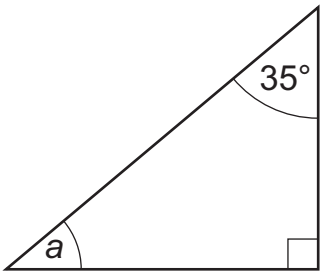
3 Complete the calculations.

$0.07 \times 1000 =$ ☐

$216.3 \div 100 =$ ☐

[1]

4 Here is a right-angled triangle.



Not drawn to scale

Calculate the size of the angle *a*.

..... ° [1]

5 Calculate

$$34.17 \div 17$$

..... [1]

6 A shop sells ribbons.

The length of each ribbon is 3.87 metres.

Calculate the **total** length of 6 ribbons.

..... metres [1]

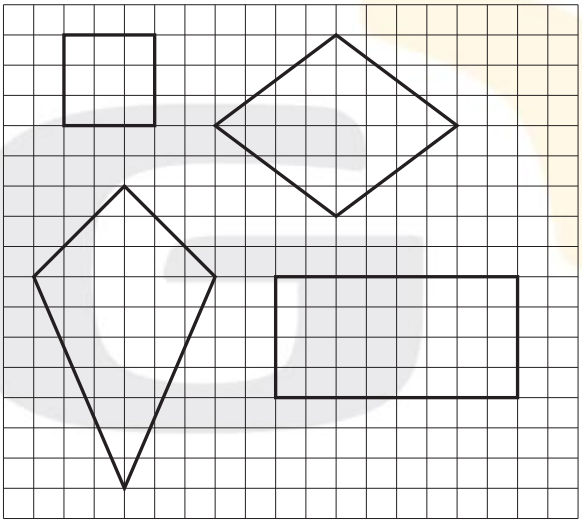
7 Here are four digits.

1 1 2 6

Use **all** the digits to write a four-digit number that is divisible by 4

..... [1]

8 Here are four shapes on a grid of squares.



Write the correct order of rotational symmetry for each shape in the table.

Shape	Order of rotational symmetry
square	
rhombus	
kite	
rectangle	

[2]

9 Eva has $50

She puts 20% of her money in the bank.

Calculate how much money Eva puts in the bank.

$ ..... [1]

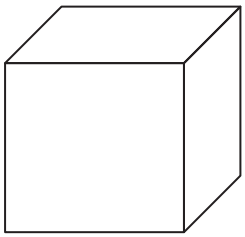
10 The table shows spelling test results for Oliver, Mike, Pierre and Carlos.

	Spelling test results
Oliver	3 7 5
Mike	5 5 6
Pierre	1 0 5 2 1
Carlos	5 5 9 5 10

Draw a ring around the name of **each** child with a median score of 5

[1]

11 Here is a cube.



The area of one face of the cube is $10\,cm^2$.

Calculate the surface area of the cube.

..... cm^2 [1]

12 Draw a ring around **each** of the numbers that are factors of 2664

2 3 4 5 6 8 9 10

[2]

13 Jamila plays a game of football.

She counts the number of goals she scores.

A, B, C, D and E are different events.

A	Jamila does not score a goal
B	Jamila scores exactly 1 goal
C	Jamila scores 2 goals or fewer
D	Jamila scores exactly 2 goals
E	Jamila scores more than 2 goals

Tick (✓) to show if the pairs of events are mutually exclusive or not mutually exclusive.

Pairs of events	Mutually exclusive	Not mutually exclusive
A and B		
B and C		
C and D		
D and E		

[2]

14 Gabriella has a piece of wood 4.2 metres in length.

She cuts off a length of 0.63 metres.

Calculate the length of the remaining piece of wood.

..... metres [1]

15 Tick (✓) to show if each sentence is possible or impossible.

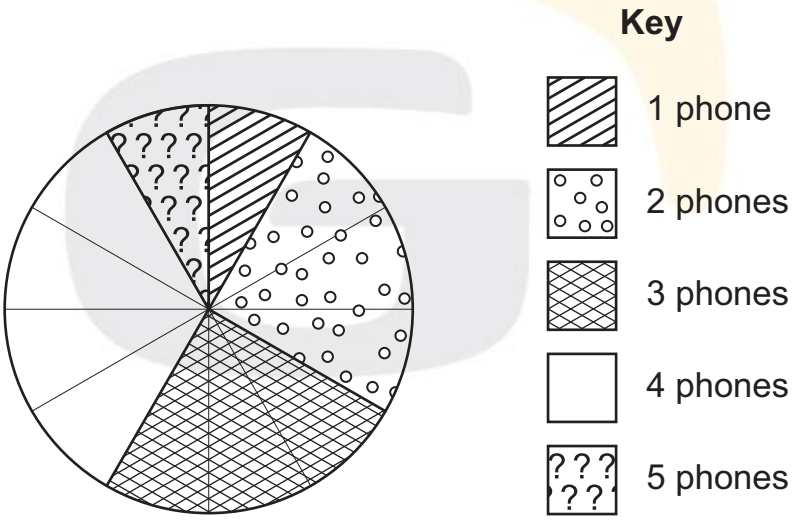
	Possible	Impossible
The volume of water in a jug is 500 ml and the capacity of the jug is 1 litre.		
The volume of water in a jug is 1 litre and the capacity of the jug is 600 ml.		
The volume of water in a jug is 600 ml and the capacity of the jug is 600 ml.		

[1]

16 Oliver predicts that half of his friends each have more than 3 phones in their home.

He asks his friends how many phones are in their homes.

He records the data in a pie chart with 12 equal sections.



Number of phones in the home

Tick (✓) to show if Oliver's prediction that half of his friends each have more than 3 phones in their home is correct.

☐ Yes ☐ No

Explain how you know.

.....

.....

[1]

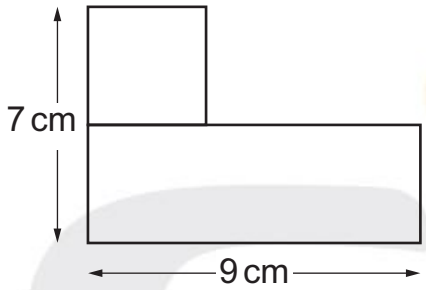
17 Ahmed can balance on one leg for 1.5 minutes.

Yuri can balance on one leg for 2.1 minutes.

Calculate how much longer Yuri can balance on one leg than Ahmed.
Write your answer in seconds.

..... seconds [1]

18 A square and a rectangle are joined to make a new shape.



Not drawn to scale

Calculate the perimeter of the new shape.

..... centimetres [1]

19 Oranges are stored in trays.
There are 240 oranges in each tray.

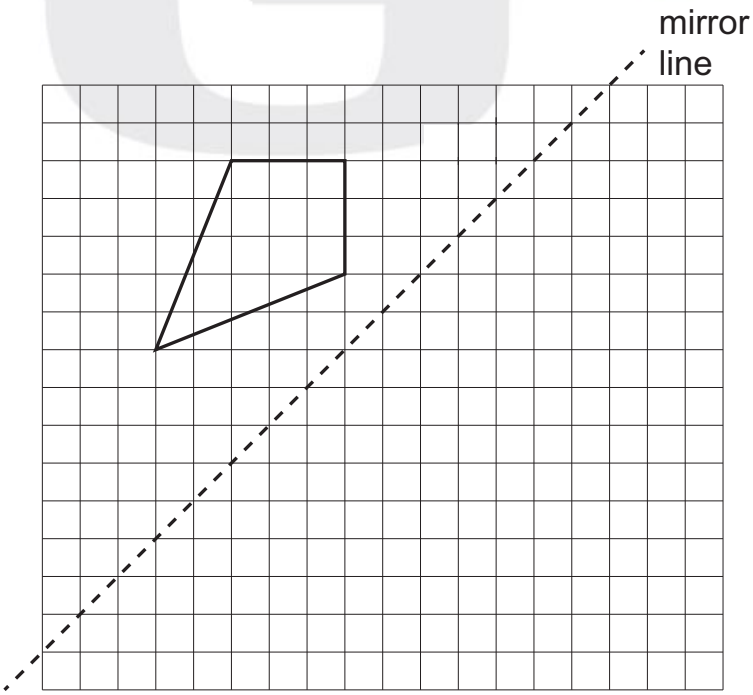
The trays are packed in boxes.
There are 5 trays in each box.

A shopkeeper buys 14 boxes.

Calculate the number of oranges the shopkeeper buys.
Show your working.

..... oranges [2]

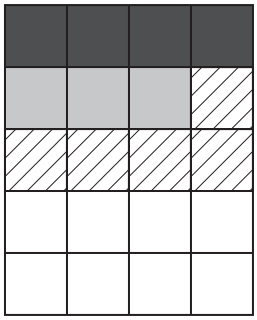
20 Here is a shape drawn on a grid of squares.



The shape is reflected in the mirror line.

Draw the reflection of the shape in the mirror line. [1]

21 Here is a waffle diagram that shows the number of T-shirts of different colours in a shop.



Key	
	red
	yellow
	green
	blue

Draw a ring around the frequency table that shows the same information as the waffle diagram.

Colour of T-shirts	Frequency
red	4
yellow	6
green	5
blue	8

Colour of T-shirts	Frequency
red	8
yellow	6
green	5
blue	16

Colour of T-shirts	Frequency
red	4
yellow	3
green	5
blue	10

Colour of T-shirts	Frequency
red	8
yellow	6
green	10
blue	16

[1]

22 Pierre has some boxes of cakes.

There are 8 cakes in each box.

His friends eat $\frac{7}{2}$ boxes of cakes.

Calculate the number of cakes his friends eat.

..... cakes [1]

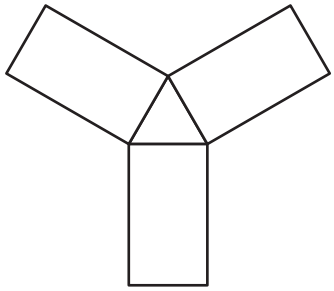
23 Draw a line to match each calculation to the correct length.

$\frac{1}{10}$ of 600 metres	less than 50 metres
$\frac{3}{10}$ of 100 metres	
$\frac{5}{10}$ of 80 metres	greater than 50 metres
$\frac{7}{10}$ of 100 metres	

[1]

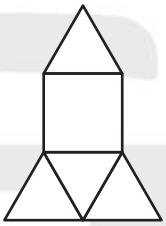
24 Angelique wants to sketch the nets of some 3D shapes.

(a) Complete the sketch of the net for a triangular prism.



[1]

(b) Here is the net for a 3D shape.



Write the name of the shape.

..... [1]

25 Four children in Class 6 collect data for their projects.

Each child shows their data using a **different** representation.

Draw a line to match the data collected to the correct representation.

Data collected	Representation
the temperature in the classroom measured every hour	dot plot
the heights of children in Class 6	line graph
the ages and heights of children in Class 6	scatter graph
the number of hours each child in Class 6 spends doing homework	frequency diagram for continuous data

[2]

26 Write the correct number in the box.

$\square \div 10 \times 10 \times 100 \div 10 \times 10 = 870$

[1]

27 Calculate

$$\frac{6}{15} \div 3$$

..... [1]

28 Lily and Samira count on in steps of constant size.

They both start at the **same** number.

Here is part of Lily's sequence.

1st number	2nd number	3rd number	4th number
	7		15

Here is part of Samira's sequence.

1st number	2nd number	3rd number	4th number
		6	

Write the 4th number in Samira's sequence.

..... [1]

29 Here are three words.

always sometimes never

Choose the correct word to complete each sentence.

You may use each word once, more than once or not at all.

Two right angles ..... make a half turn.

Two obtuse angles ..... make a full turn.

Two acute angles ..... make a right angle.

[1]

30 Write a number in each box to make the calculation correct.

$$\frac{\square}{3} + \frac{\square}{5} = \frac{16}{15}$$

[1]

31 Here is a number statement.

$$1.7 \times 8.47 + 8.3 \times 8.47$$

Write the answer.

..... [1]

32 Four bags contain only black and white balls.

Mia picks a ball at random from one of the bags.

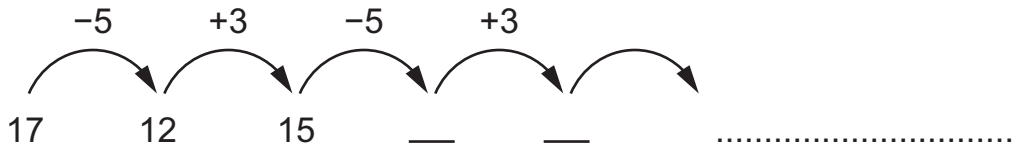
Draw a line to match each probability to the correct bag.

25% chance Mia picks a white ball	
	
2 out of 3 chance Mia picks a white ball	
	

[1]

33 Rajiv counts from 17
He subtracts 5 to find the next number.
Then he adds 3 to find the next number.

The sequence continues in the same way.



Rajiv says, 'The number –2 is in my sequence.'

Tick (✓) to show if Rajiv is correct.

☐ Yes ☐ No

Explain how you know.

.....

.....

..... [1]

34 Youssef plots the points (–3, 2) and (3, 2) on a coordinate grid.

He joins the points to make a straight line.

Tick (✓) to show if the four points in the table are above Youssef's line, below his line or on his line.

Points	Above his line	Below his line	On his line
(–3, 3)			
(2, 2)			
(3, –2)			

[1]

BLANK PAGE