Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS **0845/02**

Paper 2 **October 2022**

45 minutes

You must answer on the question paper.

You will need: 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.
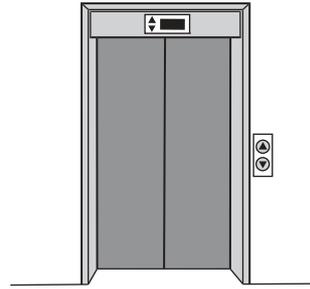- You may use a calculator.

INFORMATION

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

1 The chart shows the sign in the lift at a hotel.

floor	
3	Restaurant
2	Bedrooms
1	Ballroom
0	Ground Floor
−1	Swimming Pool
−2	Car park

Jamila parks her car in the car park and then goes up 3 floors.

Write the number of the floor she is on.

Anastasia leaves the restaurant and goes down 4 floors.

Write the number of the floor she is on.

[2]

2 Complete the following.

$$0.5 = \frac{\boxed{}}{10} = \frac{1}{\boxed{}}$$

[1]

3 Pierre is thinking of a three-digit number.
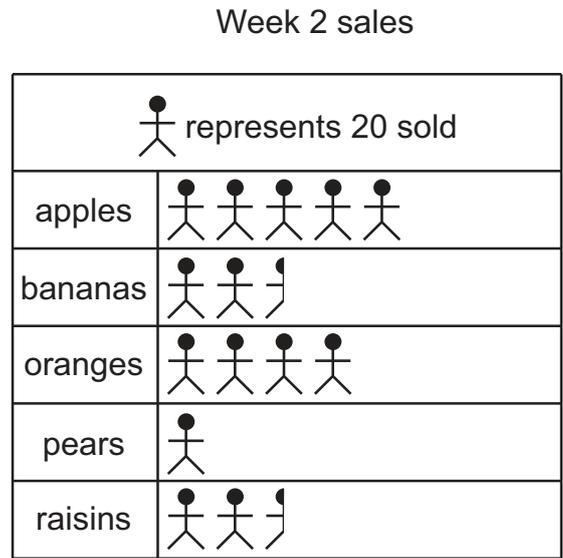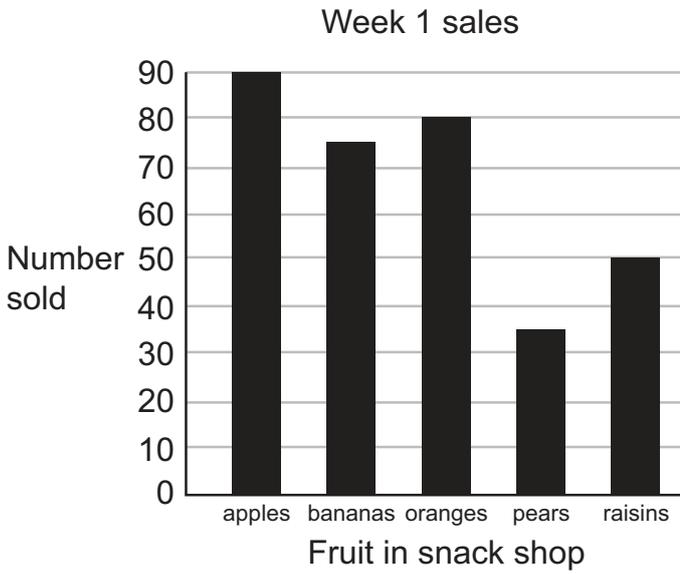
It is a multiple of 5
It is a multiple of 10
It is a multiple of 100

Write down a number Pierre could be thinking of.

[1]

4 Class 6 run the school snack shop.
They record what they sell each week.
Here is their data for the last **two** weeks.

Week 1 sales

Week 2 sales

Write how many bananas they sell in week 2

.... bananas

Write the total number of apples they sell in the two weeks.

.... apples

[2]

5 Chen and Yuri visit a park.
Here is a plan of the things they see in the park.

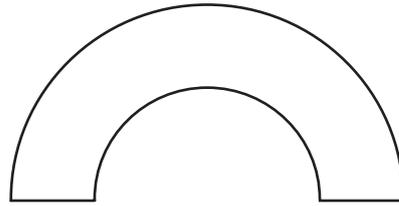|	A	B	C	D	E
1					
2					
3					
4					
5					
6					
7					

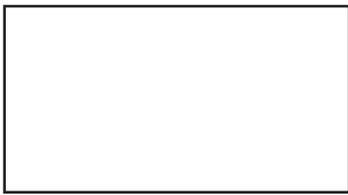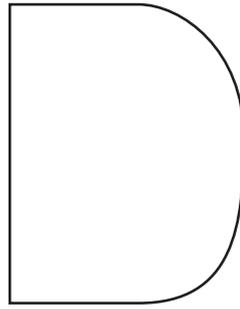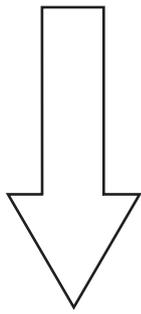Write which square the bench ( ) is in.

[1]

6 Gabriella thinks of a number.
She shades a place value chart to show the value of the digits in her number.

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Write Gabriella's number.

[1]

7 Draw a ring around the shapes with **two** lines of symmetry.

[1]

8 Complete these statements.

2 metres + _____ centimetres = 2.7 metres
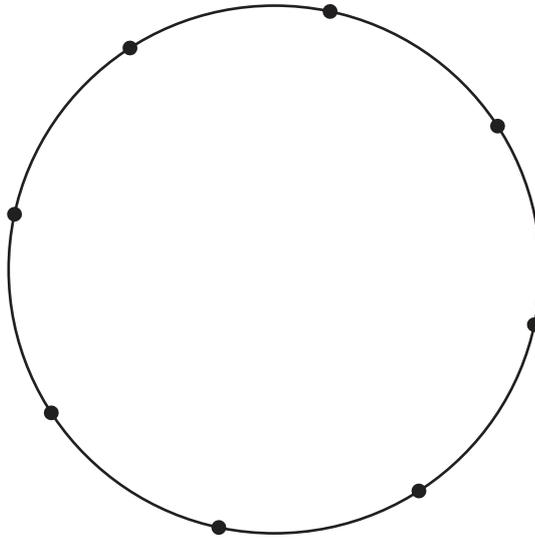
1 metre + 3 centimetres = _____ metres

[2]

9 Complete the calculation.

$$
\begin{array}{r}
\boxed{}\ 0\ \ 3\ .\ 6 \\
-\ \ \ 1\ \boxed{}\ \boxed{}\ .\ 3 \\
\hline
2\ \ 1\ \ 8\ .\ \boxed{}
\end{array}
$$

[1]

10 Here is a circle with 8 evenly-spaced dots around its edge.

Join any three dots to make an isosceles triangle.

[1]

11 Carlos says,

The number fifteen thousand nine hundred and forty three is divisible by 5
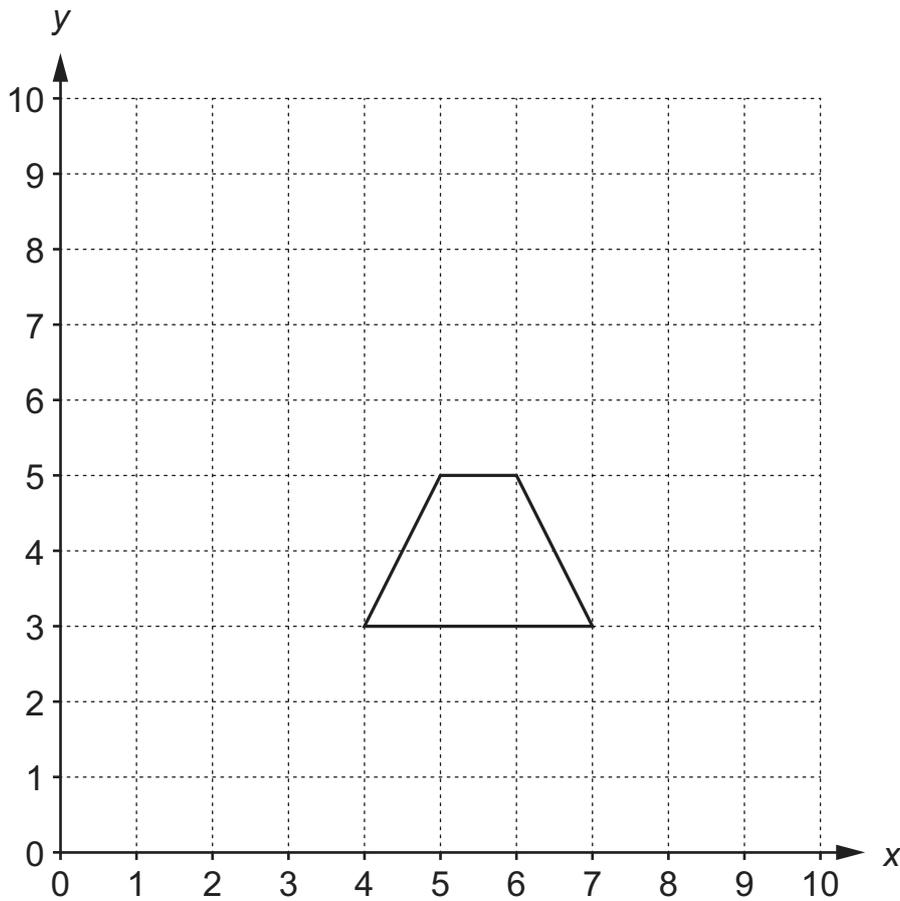
Is he correct? ☐ Yes ☐ No

Explain how you know.

[1]

12 Here is a trapezium on a square grid.

The trapezium is translated 3 squares left and 2 squares down.

Draw the trapezium in its new position on the grid.

Use a ruler.   [1]

13 Mia thinks of a number.
She rounds it to the nearest 100
Her answer is 3600

Write the **smallest number** Mia could have chosen.

                                                                               [1]
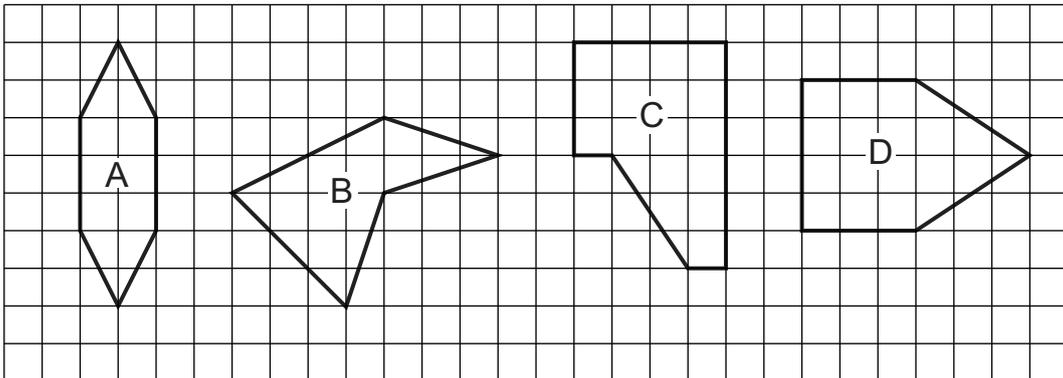
14 The symbols ☆ △ ☺ represent different even numbers.

$$☆ \times △ = 24$$

$$☆ \times ☺ = △$$

Write the value of ☺

[1]

15 Here are four shapes.

They each have a different number of acute angles.

Write the letter of each shape in the correct order.
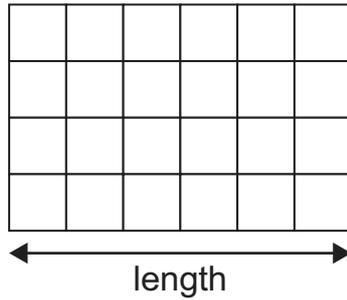One has been done for you.

Number of acute angles

C			

least   most

[1]

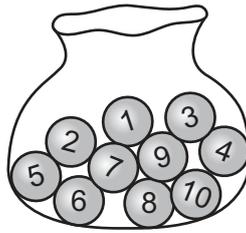**16** Here is a rectangle made of squares.
Each square is 2.3 cm long.

Not drawn to scale

length

Write down the length of the rectangle.

.... cm [1]

17 Here is a bag with ten balls numbered from 1 to 10

Mike takes one ball out of the bag without looking.

Draw lines to show how likely these outcomes are.

Outcome	Likelihood
	impossible
a number greater than zero	
	unlikely
5 or more	
	even chance
a square number	
	likely
a multiple of 2	
	certain

[2]

18 Class 4 sell cakes to raise money for charity.

Class 4 cake sale
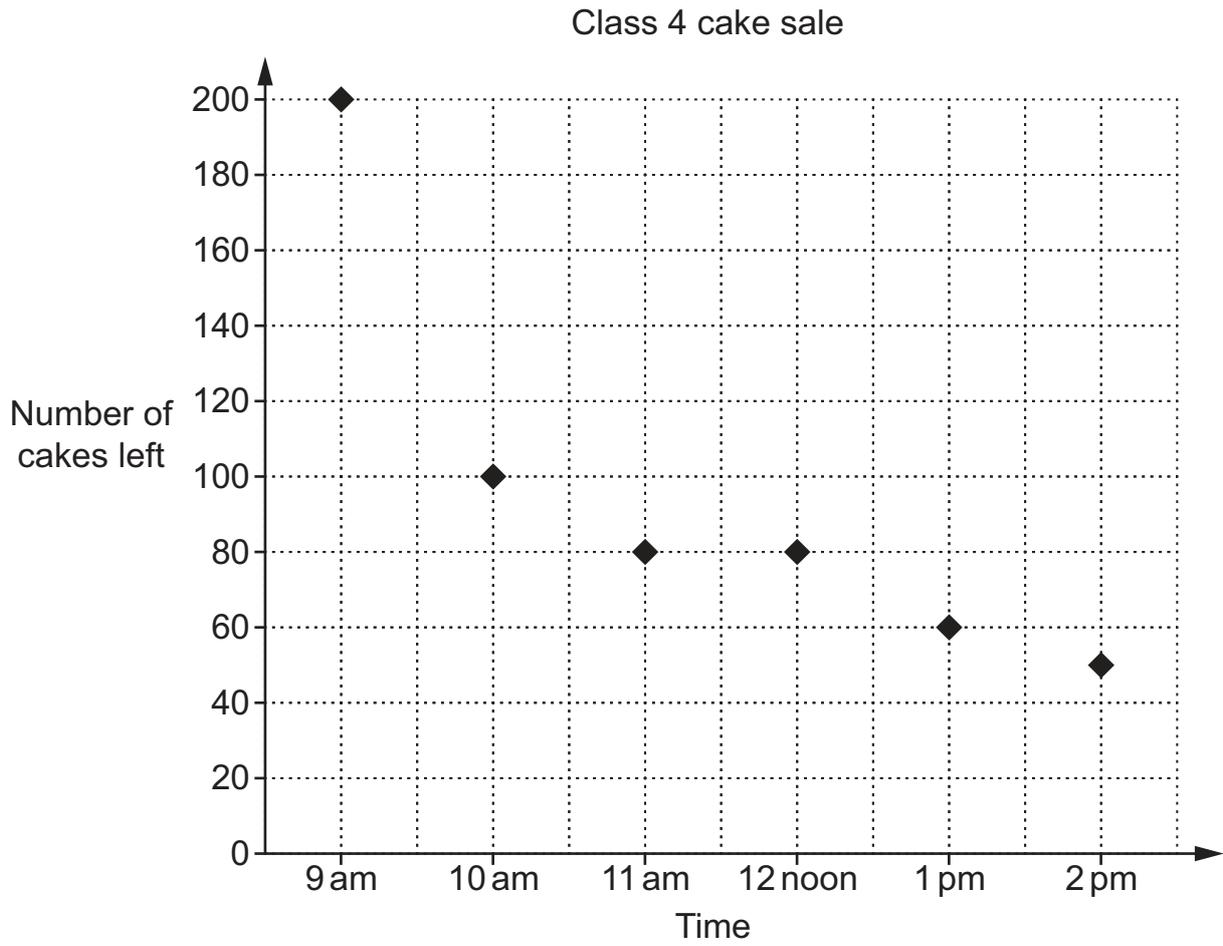
Write how many cakes they sell between 10 am and 11 am.

.... cakes

Estimate the number of cakes left at 1:30 pm.

.... cakes

[2]

19 Oliver spends $238 on 14 equally priced tickets for a music concert.

Write the cost of each ticket.

$ .... [1]

20 The sum of the numbers in the circles is written in the square in this diagram.

(1.2) —— [2.6] —— (1.4)
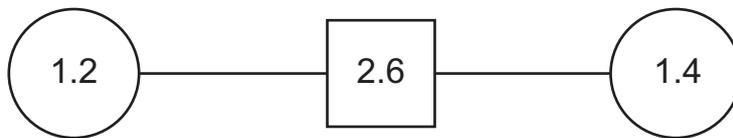
Use the same rule to complete this diagram.

[12.5]   [11.8]

[ ]   (7.5)
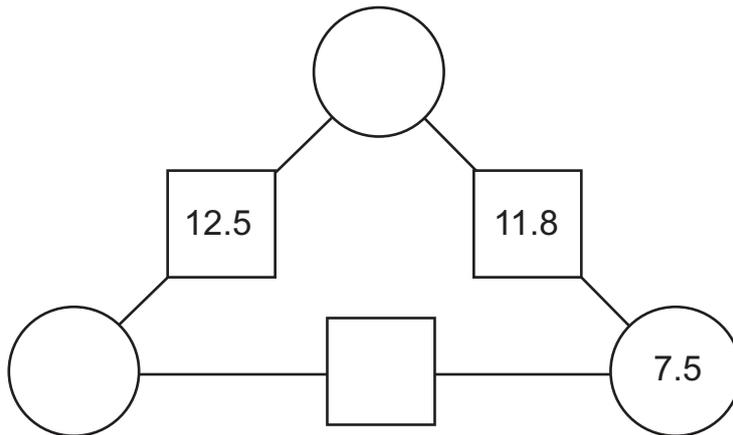
[1]

21 Complete the diagram to show fractions equivalent to $\frac{3}{4}$

One has been done for you.

$\frac{6}{8}$

$\frac{\boxed{}}{100}$

$\frac{15}{\boxed{}}$

$\frac{3}{4}$

$\frac{30}{\boxed{}}$

$\frac{\boxed{}}{12}$
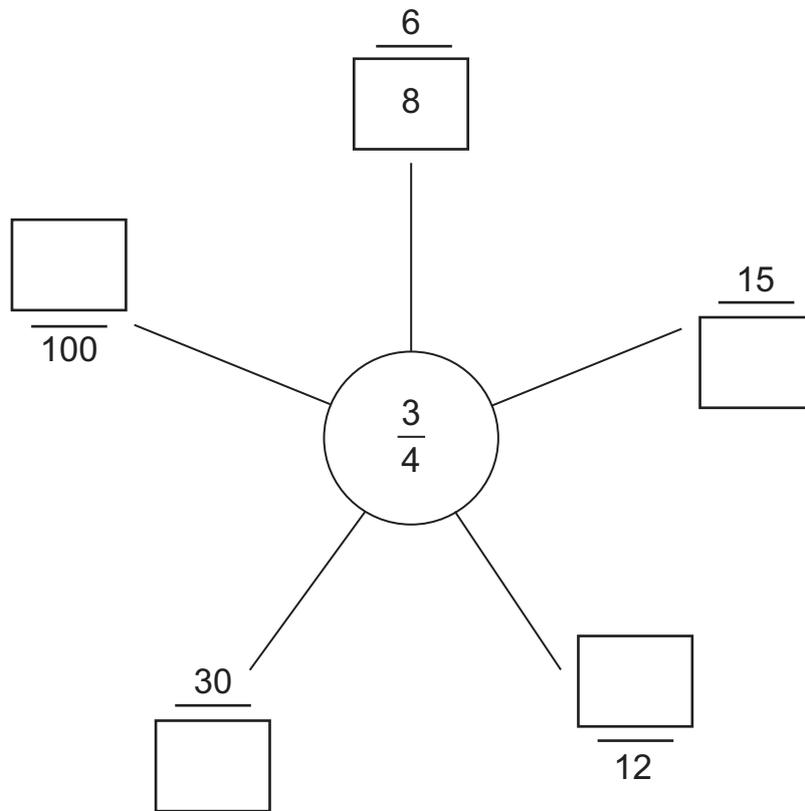
[2]

22 Here are four statements about fractions and percentages.

Tick (✓) the statements that are correct.
Cross (✗) the statements that are not correct.
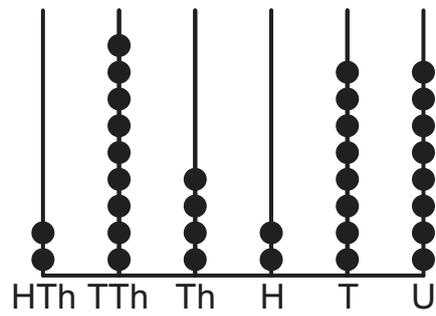
$\frac{1}{100}$ is equal to 1% ☐

$\frac{1}{3}$ is equal to 30% ☐

$\frac{5}{10}$ is equal to 5% ☐

$\frac{3}{4}$ is equal to 75% ☐

[2]

23 Here is an abacus.

Complete the calculation to show the number represented on the abacus.

$$\boxed{} + 90\,000 + 4000 + \boxed{} + 80 + 8$$

[1]

24 The table shows the heights of five plants in centimetres.

Plant	Height in centimetres
Plant A	12.6
Plant B	21.4
Plant C	23.5
Plant D	35.7
Plant E	26.8

Calculate the **mean** height of the plants.

.... cm [1]

25 Here is part of a sequence.

1,   3,   6,   10,   ⬚   21,   ⬚   36

Write the missing numbers in the boxes.

[1]

26 Angelique uses three identical rectangles to make a square.

Not drawn to scale

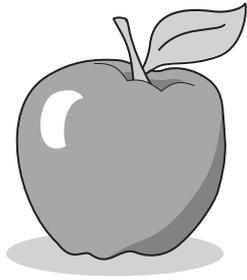The perimeter of the square is 24 cm.

(a) Write the area of the square.

cm^2 [1]

(b) Write the perimeter of **one** small rectangle.

cm [1]

27 Apples cost 40 cents each.
Oranges cost 30 cents each.

Apple
40 cents each

Orange
30 cents each

Gabriella buys 6 apples and some oranges.
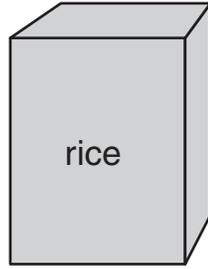She pays with $5.00 and receives 50 cents change.

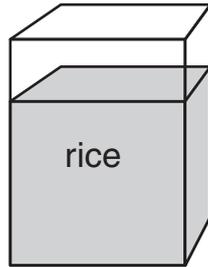Write how many oranges Gabriella buys.
You must show your working.

.... oranges [2]

28 Write $\dfrac{7}{8}$ as a decimal.

.... [1]

29 Here is a 1 kg box of rice.

Eva takes some rice out of the box.

Estimate how much rice is left in the box.

.... grams [1]

0845/02/O/N/22

30 Here are the calendars for June and August.

June						
S	**M**	**T**	**W**	**T**	**F**	**S**
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

August						
S	**M**	**T**	**W**	**T**	**F**	**S**
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Complete these statements for **July**.

There are .... Saturdays.

The first day of the month is a ....

The last Sunday in the month is the .... July.

[2]

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