Cambridge Assessment International Education

Mathematics

Stage 3

Paper 2

2022

Cambridge Primary Progression Test

Name

Class

Date

40 minutes

Additional materials: Set square
Tracing paper (optional)

INSTRUCTIONS

- Answer **all** questions.
- Write your answer to each question in the space provided.
- You should show all your working on the question paper.
- You are **not** allowed to use a calculator.

INFORMATION

- The total mark for this paper is 30.
- The number of marks for each question or part question is shown in brackets [ ].

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1 Write the number nine hundred and thirty in digits.

..... [1]

2 Here is part of a page from a calendar.

April						
M	**T**	**W**	**T**	**F**	**S**	**S**
	1	2	3	4	5	6
7	8	9	10			

Write the date of the fourth Friday in **April**.

..... April [1]

3 Here is a number sequence.

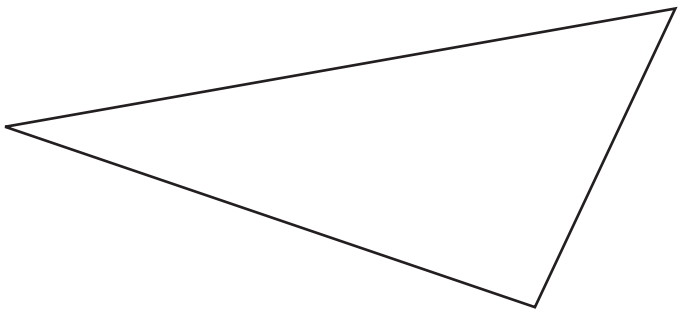
37, 47, 57, 67, 77, …

The sequence continues in the same way.

Write the next **two** numbers in the sequence.

....., ... [1]

4 Measure the longest side of the triangle in centimetres.
Use a ruler.



..... cm [1]

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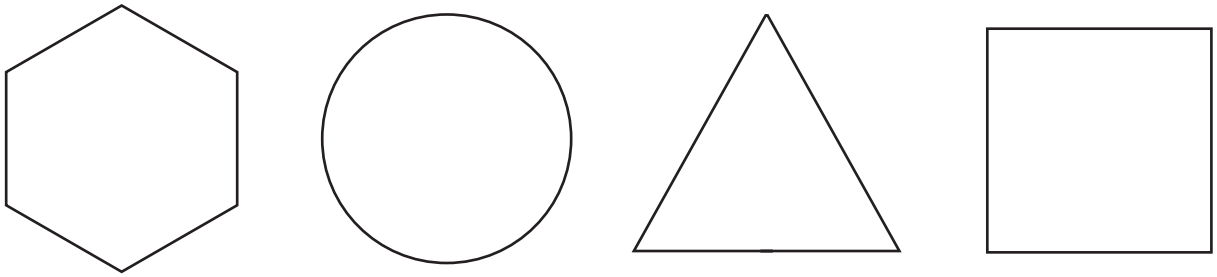
5 Write these numbers in the correct place.

465 456 645 546 564

..... > ..... > ..... > ..... > .....

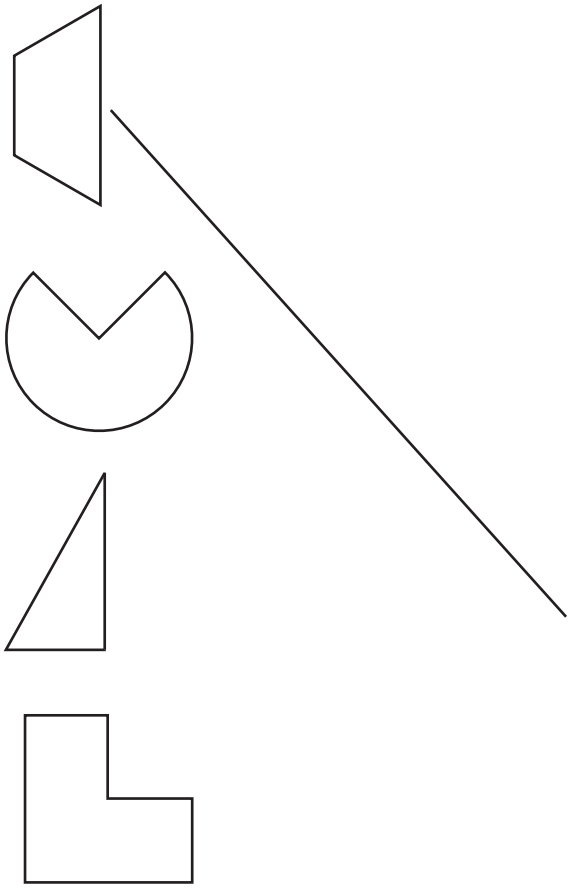
[1]

6 Here are some shapes.



Naomi removes part of each shape.

Draw a line to join **each** new shape to the correct statement.
One has been done for you.



$\frac{1}{4}$ of the shape is missing

$\frac{1}{2}$ of the shape is missing

[1]

7 A swimming pool opens at 7 o'clock in the morning.
It closes at 9 o'clock at night.

How long is the swimming pool open?

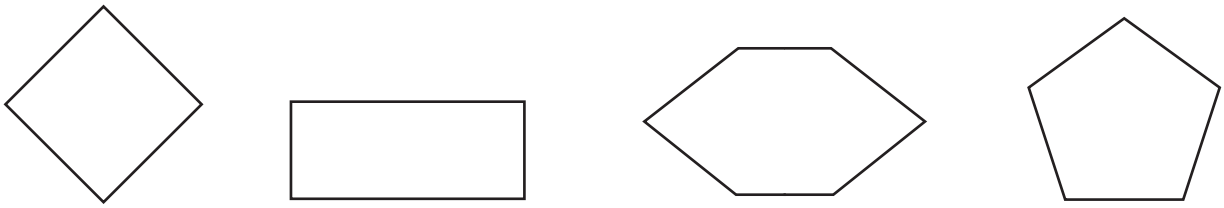
..... hours [1]

8 A bag contains 10 oranges.
Yuri buys 6 bags of oranges.

Calculate the total number of oranges Yuri buys.

..... oranges [1]

9 Draw a ring around each of the **regular** shapes.



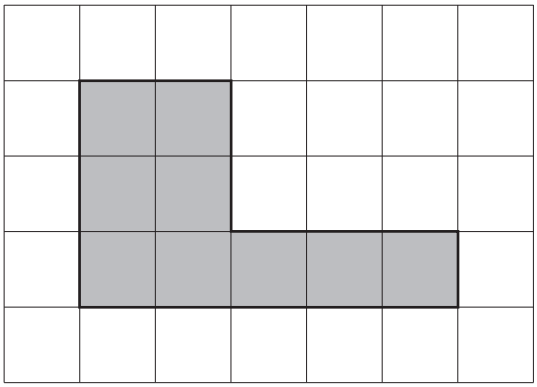
[1]

10 Draw a line to join **each** number to the nearest 100
One has been done for you.

Number	**The nearest 100**
182	200
265	
248	300
345	

[1]

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

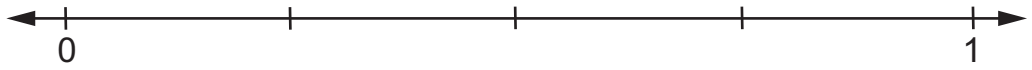


Use these words to complete the mathematical statement.

length square units perimeter area centimetres

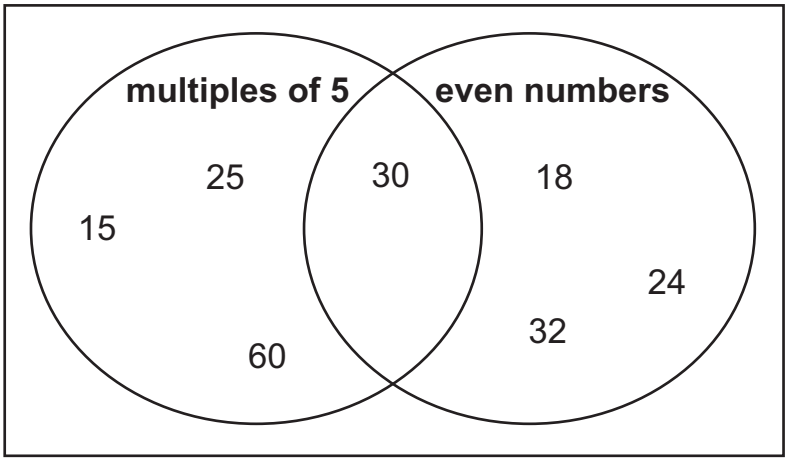
The ..... of the shape is 9 ..... . [1]

12 Draw an arrow (↓) to show $\frac{3}{4}$ on the number line.



[1]

13 Here is a Venn diagram.



(a) Write 28 in the correct place in the Venn diagram. [1]

(b) Draw a ring around the number that is in the wrong place. [1]

14 Chen puts three black beads and three white beads in a bag.

Chen picks a bead without looking in the bag.

Carlos says,

'You will have a better chance of picking a black bead if you take out a white bead.'

Tick (✓) to show if Carlos is correct.

Yes ☐ No ☐

Explain how you know.

.....

.....

[1]

15 Here are two different coins used in the USA.

5 cents

10 cents

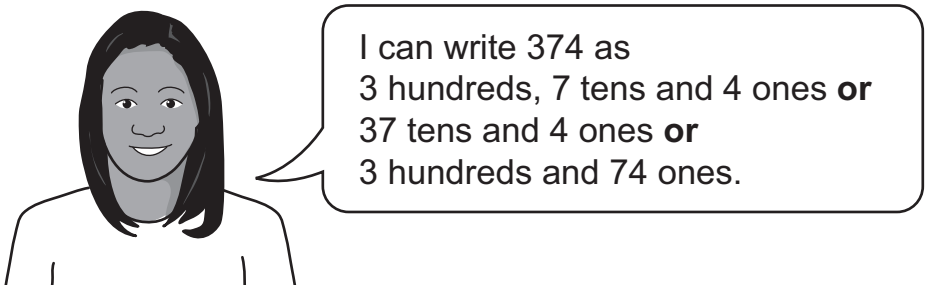
Write three **different** ways of making 25 cents using these coins.

.....

.....

..... [2]

16 Eva says,



Write the number 508 in two **different** ways.

.....

..... [1]

17 Estimate the mass of these items.

bag of rice apple child coin elephant

Write the names of the items in the table to show your estimates.
One has been done for you.

Mass is less than 1 kg	**Mass is greater than or equal to 1 kg**
	bag of rice

[1]

18 Here are some mathematical symbols.

<	>	=

Write a symbol in each box to make each statement correct.

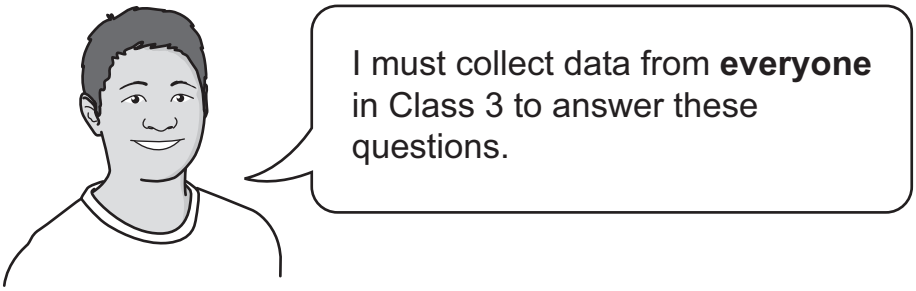
$\frac{1}{2}$ ☐ $\frac{1}{10}$

$\frac{9}{10}$ ☐ $\frac{3}{10}$

$\frac{1}{5}$ ☐ $\frac{1}{4}$

[1]

19 Mike says,



Question	True	False
Who is the English teacher for Class 3?		✓
What is the favourite colour of Class 3?		
Where is the classroom for Class 3?		
How do children in Class 3 travel to school?		

Tick (✓) true or false to show if Mike is correct.
One has been done for you.

[1]

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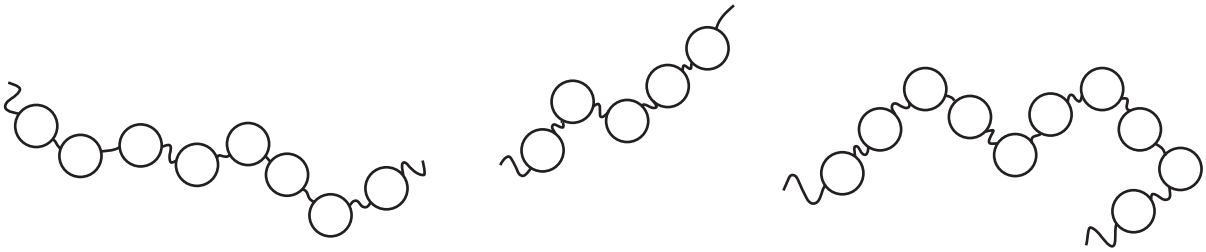
20 Calculate.

$78 \div 3$

..... [1]

21 Gabriella and Samira have these three strings of beads to share between them.



Gabriella says,

'We can find half of the total number of these beads and we will each have the same number of beads.'

Tick (✓) to show if Gabriella is correct.

Yes ☐ No ☐

Explain how you know.

.....

.....

[1]

22 A rectangle has a perimeter of 28 cm.
The longer side measures 11 cm.

Write the length of the shorter side.
Show your working.

..... cm [2]

23 Here is a table to show how many children play tennis or go swimming.

	Girls	**Boys**	**Total**
Tennis			
Swimming		51	86
Total	72		

There are 165 children altogether.

Complete the table to show how many children play each sport.

[2]

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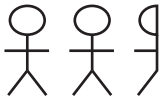
24 Class 3 collect information about their favourite colour.
The frequency table and pictogram show the information.

Frequency table of the favourite colours of Class 3		
Colour	**Tally**	**Frequency**
Blue	𝍸 𝍸	10
Green	𝍸 ||	
Red		6
Yellow		

Pictogram of the favourite colours of Class 3	
Blue	
Green	
Red	
Yellow	

Key:  = 2 students

Complete the frequency table **and** pictogram. [2]

25 Here are some statements about multiplication.

Statement	True	False
$4 \times 13 = 4 \times 10 + 4 \times 3$	✓	
$3 \times 28 = 3 \times 10 + 3 \times 10 + 3 \times 8$		
$5 \times 12 = 2 \times 10 + 2 \times 5$		
$3 \times 18 = 10 \times 3 + 8 \times 3$		

Tick (✓) to show if the statements are true or false.
One has been done for you.

[1]

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