Cambridge Assessment International Education

Cambridge Primary Progression Test

Mathematics paper 2

Stage 6

6685913061

45 minutes

Name .....

Additional materials: Ruler
Calculator

READ THESE INSTRUCTIONS FIRST

Answer **all** questions in the spaces provided on the question paper.

Calculator allowed.

You should show all your working on the question paper.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 40.

For Teacher's Use	
Page	**Mark**
1	
2	
3	
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12	
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15	
16	
Total	

For Teacher's Use

1 This sequence increases by 6 each time.

6 12 18 24 … …

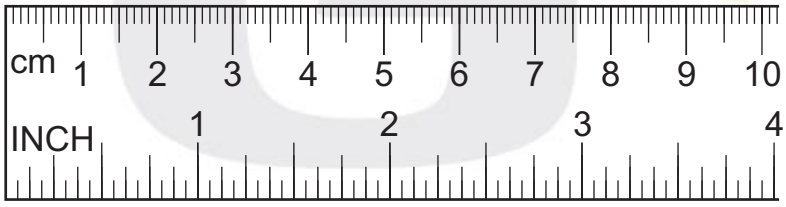
This sequence increases by 5 each time.

5 10 15 20 … …

Find a number greater than 50 that will be in **both** sequences.

..... [1]

2 Safia's ruler shows measurements in both inches and centimetres.



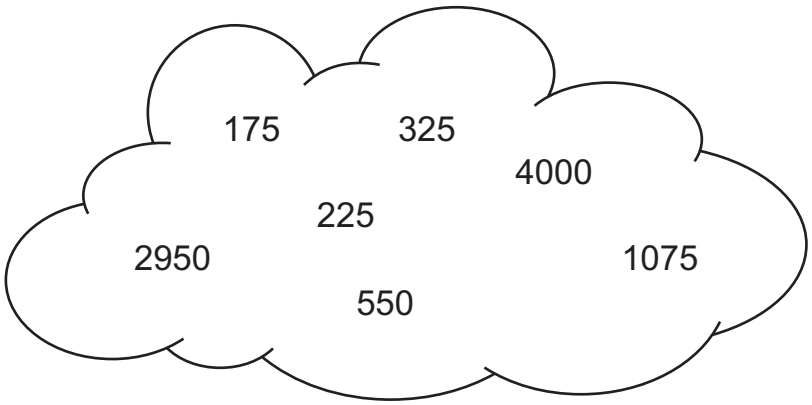
Her book measures 12 inches.

Write 12 inches to the nearest centimetre.

..... cm [1]

3 The numbers in the cloud are all divisible by the same three numbers.

For Teacher's Use



Complete the sentence.

All the numbers are divisible by 1, 5 and ..... .

[1]

4 Draw lines to join each percentage to its equivalent fraction.

20%	$\frac{1}{4}$
25%	$\frac{1}{5}$
30%	$\frac{35}{100}$
35%	$\frac{3}{10}$

[1]

For Teacher's Use

5 Complete the calculations.

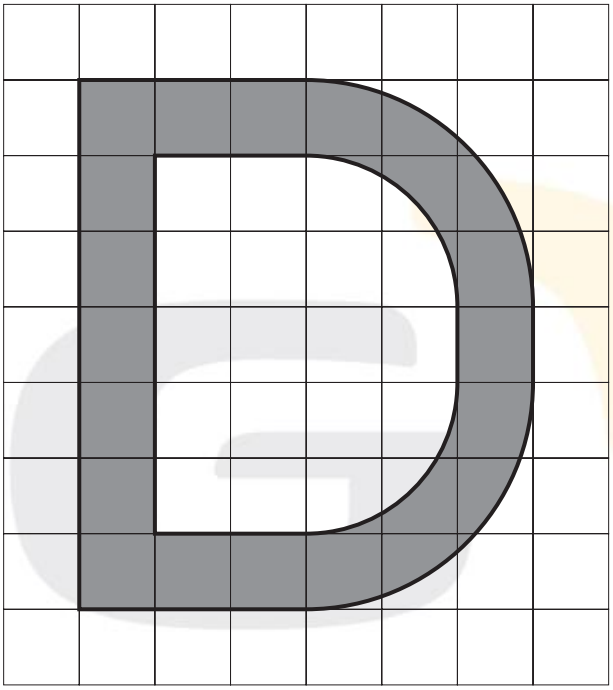
$43\,268 = 40\,000 +$ ☐ $+ 268$

$43\,268 = 40\,000 +$ ☐ $+ 168$

$43\,268 = 30\,000 +$ ☐ $+ 168$

[2]

6 The letter D is drawn on a centimetre square grid.



Draw a ring around the best estimate of the area of the letter D.

$15\,cm^2$ $20\,cm^2$ $25\,cm^2$ $30\,cm^2$ $35\,cm^2$

[1]

For Teacher's Use

7 **(a)** Complete the table to show whether each fraction is less than or greater than 0.6
The first one has been done for you.

	Less than 0.6	Greater than 0.6
$\frac{1}{6}$	✓	
$\frac{4}{7}$		
$\frac{8}{13}$		

[1]

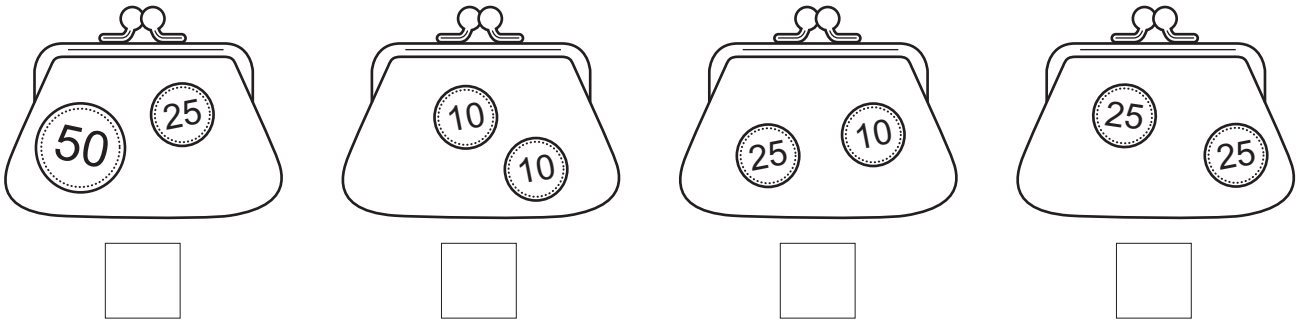
(b) Convert $\frac{43}{8}$ to a decimal.

..... [1]

8 Oliver has a purse containing 2 coins.
He selects one coin at random from his purse.

He is **certain** to have 25 cents or more.
It is **impossible** he will have a 50 cent coin.

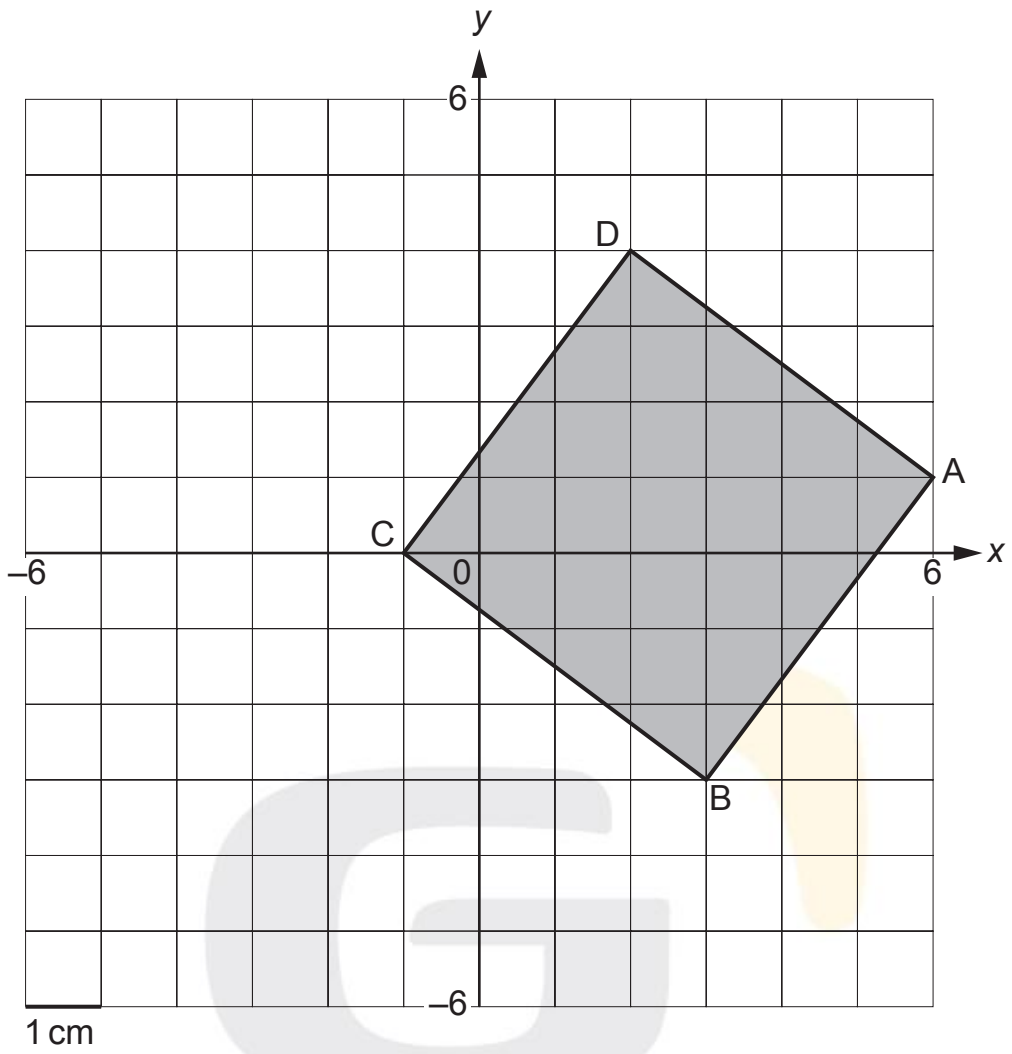
Tick (✓) Oliver's purse.



[1]

For Teacher's Use

9 A square is drawn on a co-ordinate grid marked in centimetres.



(a) Write down the co-ordinates of point B.

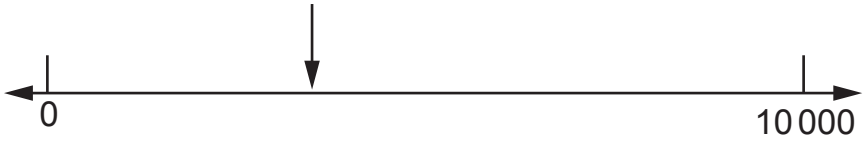
(..... , ...) [1]

(b) What is the perimeter of the square?

..... cm [1]

10 Estimate the position of the arrow (↓) on the number line.

For Teacher's Use



..... [1]

11 △ and □ each represent a **two-digit multiple of ten**.

△ × □ = 2400

Complete the table to show the different possible pairs of values for △ and □.

The first two pairs have been done for you.

	△	□
Pair 1	60	40
Pair 2	40	60
Pair 3		
Pair 4		

[1]

12 Here are four digit cards.

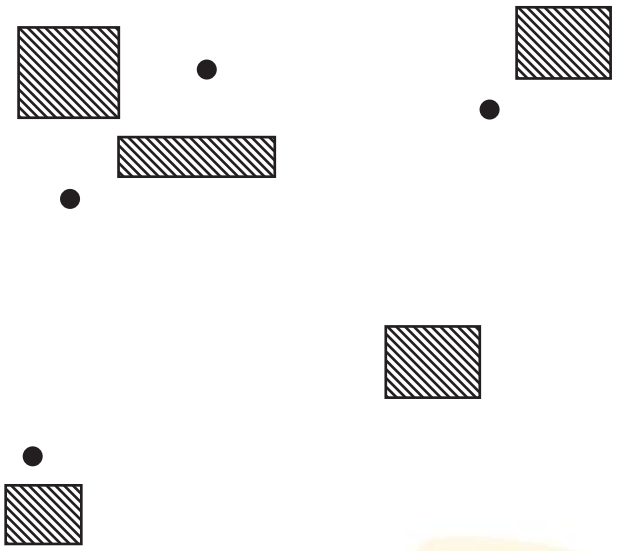
3	4	5	6

Use each card **once** to complete the calculation.

□ . □ − 2.9 = □ . □

[1]

13 Draw a line **exactly** 68 mm long.
It must pass through two circles (●).
It must **not** pass through the boxes ( ).



[1]

14 Here is part of a hundred square.

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					

What is the special name given to the shaded numbers?

..... [1]

15 Complete the calculation.

68 ÷ ☐ = ☐ remainder 5

[1]

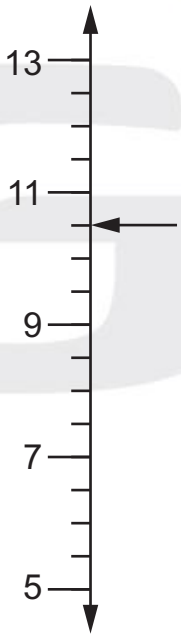
16 A ring has been placed around one pair of equivalent fractions.

Draw rings around **three more pairs** of equivalent fractions.

$\frac{9}{12}$	$\frac{6}{12}$	$\frac{1}{2}$
$\frac{3}{4}$	$\frac{8}{20}$	$\frac{1}{3}$
$\frac{2}{5}$	$\frac{3}{10}$	$\frac{12}{40}$

[2]

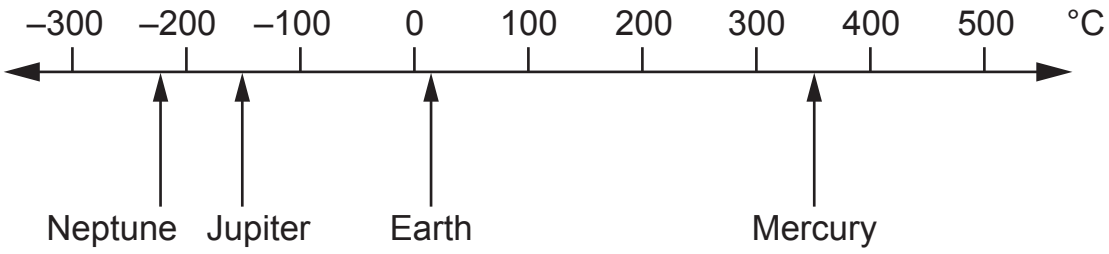
17 What number is the arrow pointing to?



..... [1]

For Teacher's Use

18 The number line shows the surface temperatures of four planets.



(a) What is the surface temperature of Jupiter?

..... °C [1]

(b) Which two planets have a difference in surface temperature of about 500 °C?

..... and ..... [1]

19 Use <, > or = to complete these statements.

42.6 × 7 ☐ 1493 ÷ 5

39.4 + 27 + 9.25 ☐ 105.05 − 29.4

[1]

20 The table shows the scores for 30 children in a test.

2	3	3	7	8	9	10	10	11	12
12	12	12	14	14	15	16	16	16	16
16	17	18	18	19	19	19	20	20	20

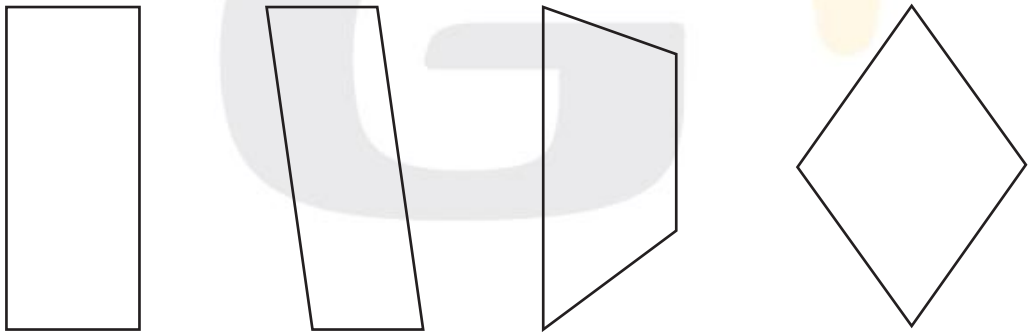
(a) What is the range of these scores?

..... [1]

(b) What is the mode of these scores?

..... [1]

21 Here are 4 different quadrilaterals.



(a) One of these quadrilaterals has only one pair of parallel sides.

Write the name of this quadrilateral.

..... [1]

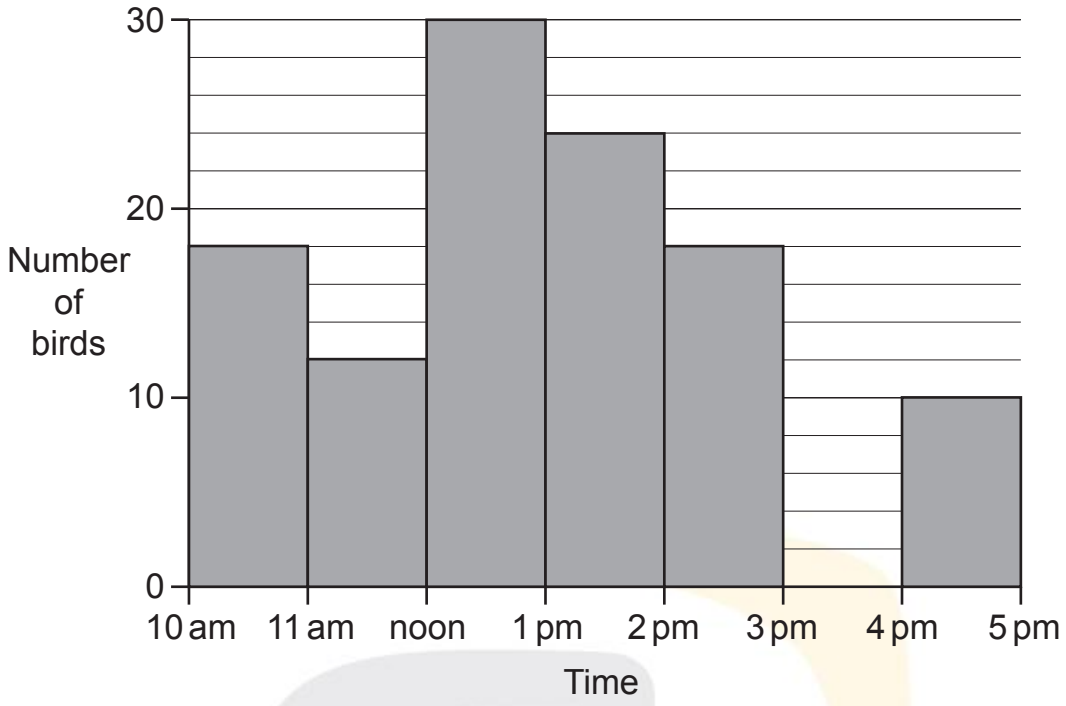
(b) One of these quadrilaterals has 4 equal sides.

Write the name of this quadrilateral.

..... [1]

For Teacher's Use

22 Anastasia counted the number of birds visiting her garden each hour between 10 am and 5 pm.
The chart shows her data.
The bar for 3 pm to 4 pm is missing.



(a) After 3 pm she saw 28 birds.

Complete the chart. [1]

(b) Anastasia says,

> Between 1 pm and 2 pm twice as many birds visited the garden than between 11 am and noon.

Is Anastasia correct? Yes ☐ No ☐

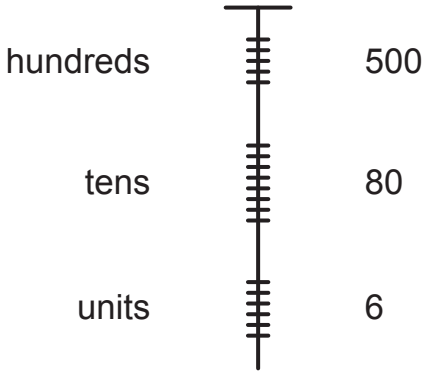
Explain your answer.

.....

..... [1]

23 The Incas developed a number system using knots in strings.

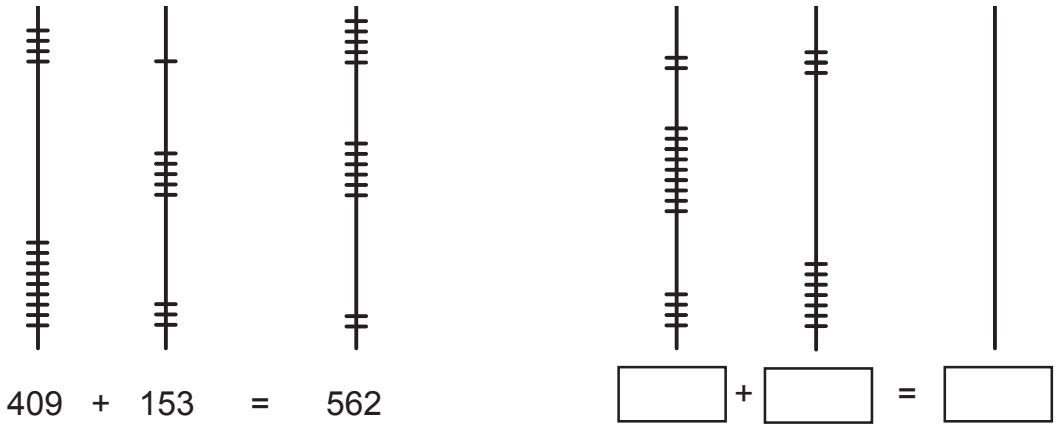
The diagram shows how the number 586 is represented.



(a) Draw a diagram to show the number 345

[1]

(b) The diagrams show Inca addition.

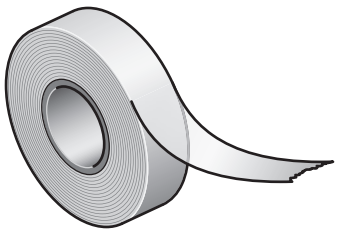


Complete the addition on the second diagram.

[1]

For Teacher's Use

24 Ahmed has a 2-metre roll of tape.
He cuts pieces of tape 35 cm long.



(a) How many complete pieces can he cut?

..... pieces [1]

(b) How much tape will be left over?

..... cm [1]

25 Manjit and Lily are talking about a number.

Manjit says,

Two of the factors must be 1 and the number itself.

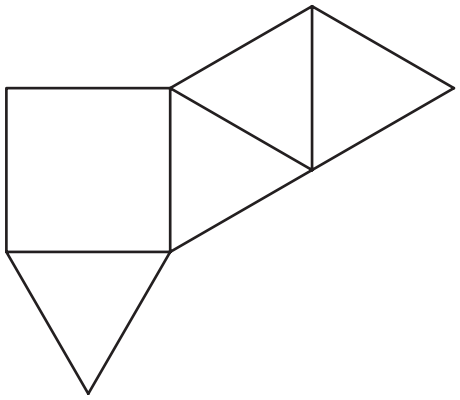
Lily says,

The other factors are
3 5 15 25

What is their number?

..... [1]

26 Here is the net of a 3D shape.



What is the name of the 3D shape?

..... [1]

27 A running relay team has 4 runners.
Their best time this year for 400 m is 43.7 seconds.
The table shows the times for the first three runners.

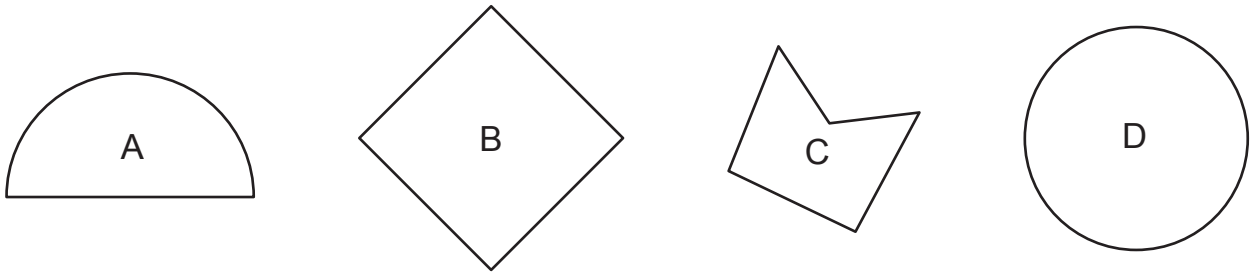
Runner	Time (seconds)
1	9.87
2	12.05
3	11.3

What time must the fourth runner achieve to **equal** their best time this year?
Show your calculations.

..... seconds [2]

For Teacher's Use

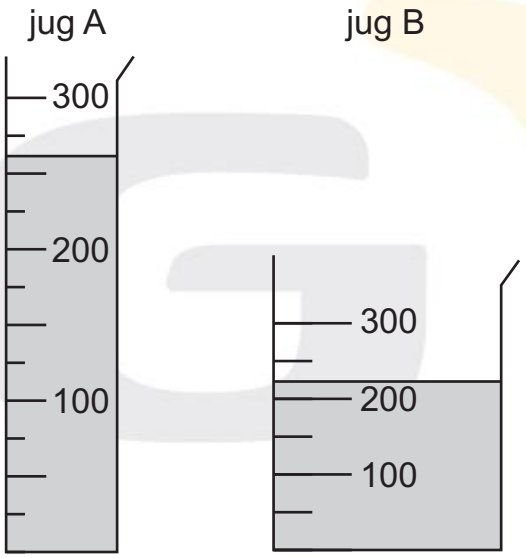
28 A, B, C and D are drawings of 2D shapes.



Write the letters of the shapes that are polygons.

..... [1]

29 Here are two measuring jugs.
The scales are labelled in millilitres.



Chen says 'Jug B has more liquid in it than jug A.'

Is he correct? Yes ☐ No ☐

Explain your answer.

.....

..... [1]