



# Cambridge Primary Progression Test

## Mathematics paper 2

### Stage 6



**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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9	
10	
11	
12	
13	
14	
15	
16	
<b>Total</b>	

2

1 This sequence increases by 6 each time.

6      12      18      24      ...      ...

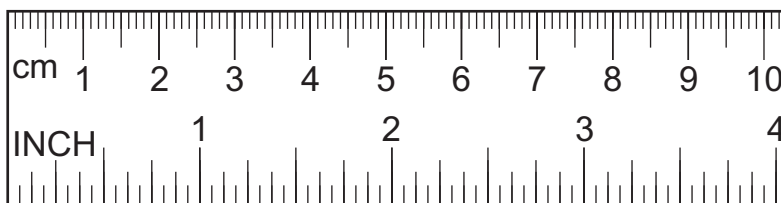
This sequence increases by 5 each time.

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.

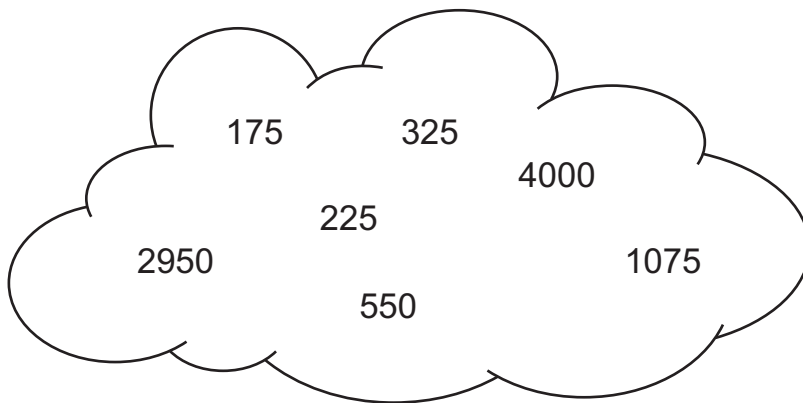


Her book measures 12 inches.

Write 12 inches to the nearest centimetre.

..... cm [1]

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



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]

5 Complete the calculations.

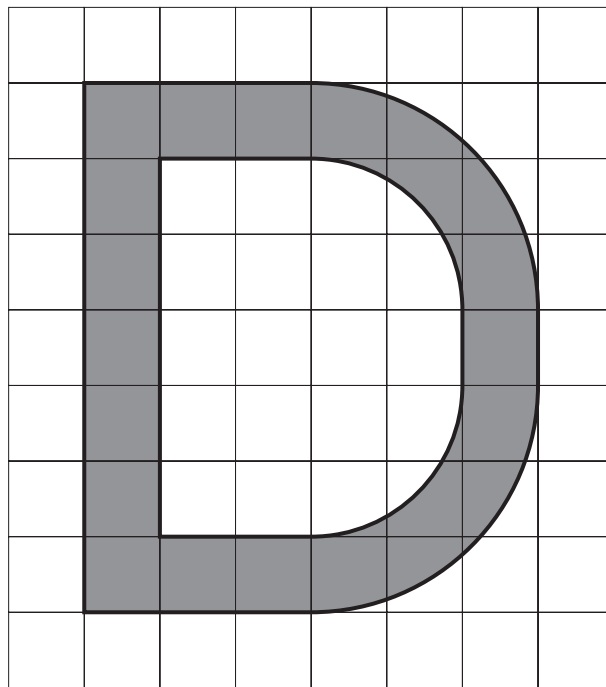
$$43\,268 = 40\,000 + \boxed{\phantom{0000}} + 268$$

$$43\,268 = 40\,000 + \boxed{\phantom{0000}} + 168$$

$$43\,268 = 30\,000 + \boxed{\phantom{0000}} + 168$$

[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<sup>2</sup>20 cm<sup>2</sup>25 cm<sup>2</sup>30 cm<sup>2</sup>35 cm<sup>2</sup>

[1]

- 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]

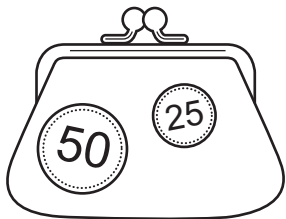
- (b) Convert  $\frac{43}{8}$  to a decimal.

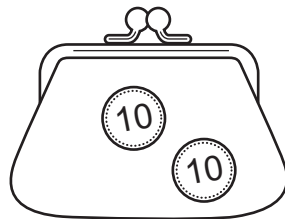
..... [1]

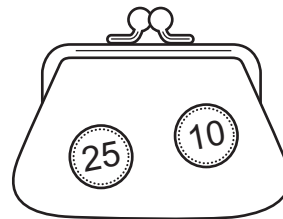
- 8 Oliver has a purse containing 2 coins.  
He selects one coin at random from his purse.

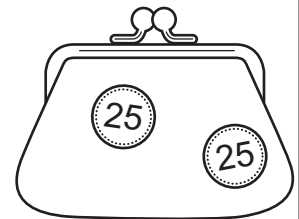
He is **certain** to have 25 cents or more.  
It is **impossible** he will have a 50 cent coin.

Tick (✓) Oliver's purse.



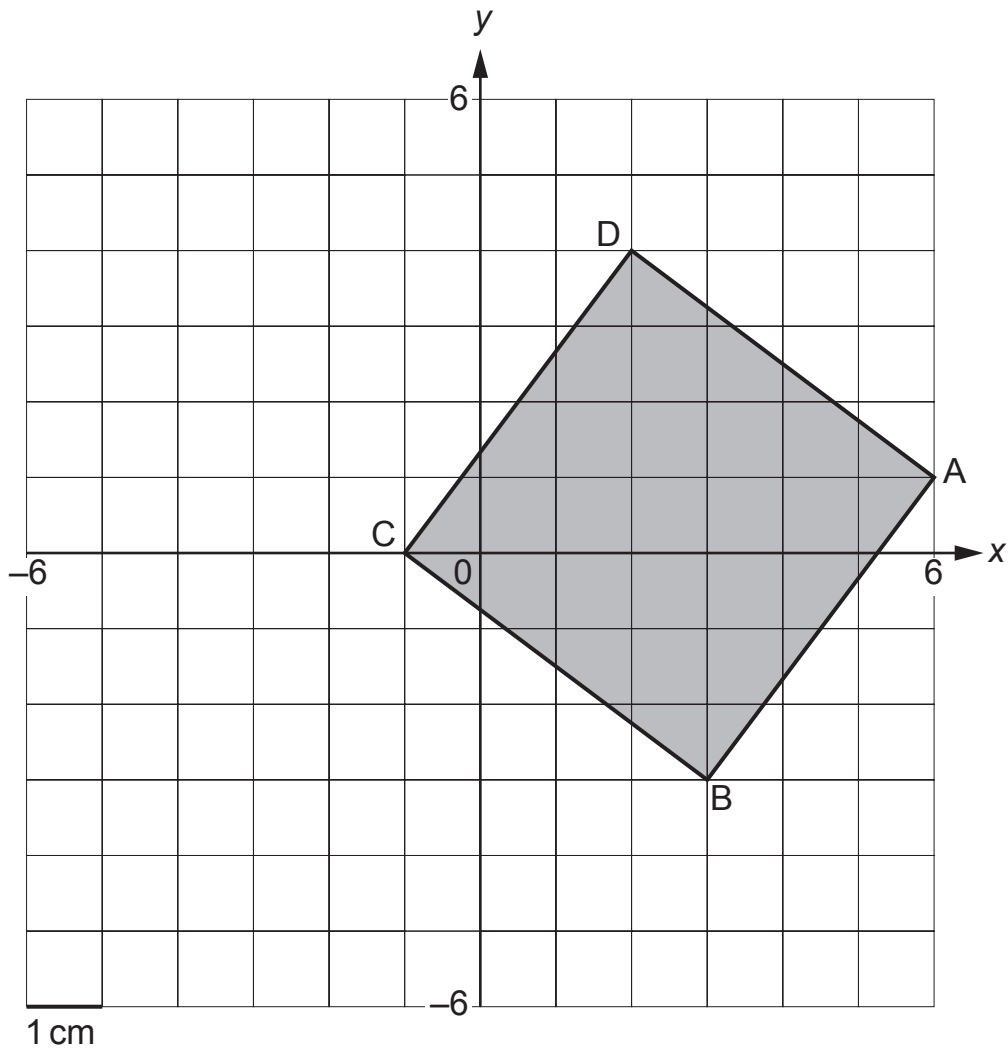







[1]

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



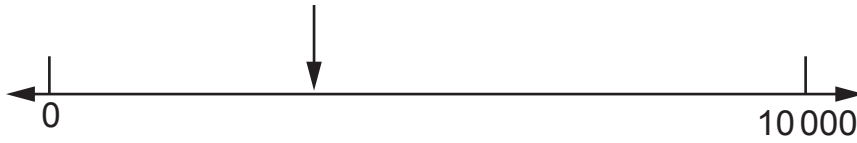
- (a) Write down the co-ordinates of point B.

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

- (b) What is the perimeter of the square?

..... cm [1]

10 Estimate the position of the arrow ( $\downarrow$ ) on the number line.



..... [1]

11  $\triangle$  and  $\square$  each represent a **two-digit multiple of ten**.

$$\triangle \times \square = 2400$$

Complete the table to show the different possible pairs of values for  $\triangle$  and  $\square$ .

The first two pairs have been done for you.

	$\triangle$	$\square$
Pair 1	60	40
Pair 2	40	60
Pair 3		
Pair 4		

[1]

12 Here are four digit cards.

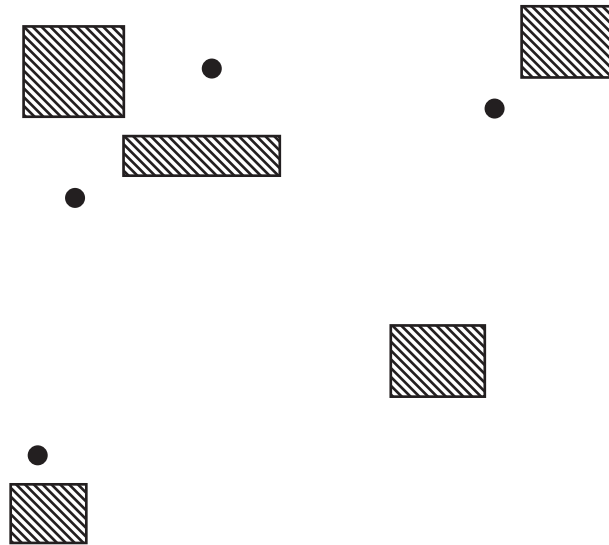


Use each card **once** to complete the calculation.

$$\square \cdot \square - 2.9 = \square \cdot \square$$

[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.

$$68 \div \boxed{\phantom{000}} = \boxed{\phantom{000}} \text{ remainder } 5$$

[1]



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

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

$$\frac{9}{12}$$

$$\frac{6}{12} \quad \frac{1}{2}$$

$$\frac{3}{4}$$

$$\frac{8}{20}$$

$$\frac{1}{3}$$

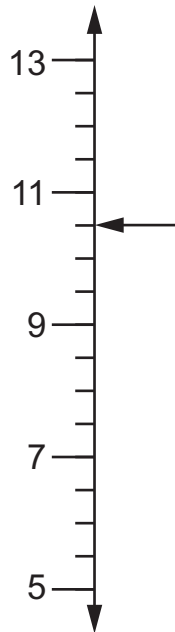
$$\frac{2}{5}$$

$$\frac{3}{10}$$

$$\frac{12}{40}$$

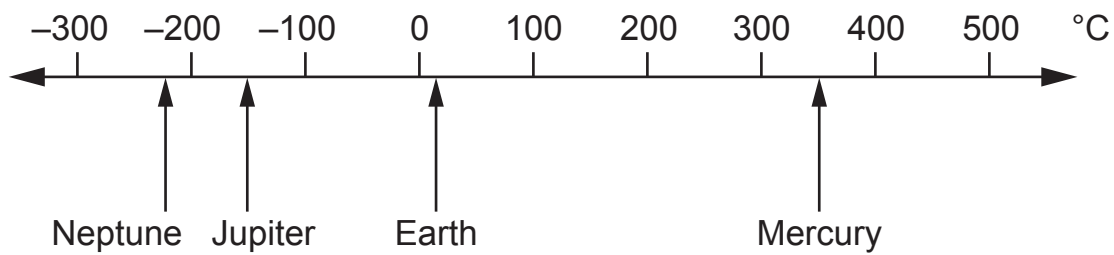
[2]

**17** What number is the arrow pointing to?



..... [1]

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.

$$42.6 \times 7 \quad \square \quad 1493 \div 5$$

$$39.4 + 27 + 9.25 \quad \square \quad 105.05 - 29.4$$

[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

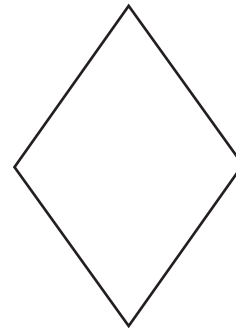
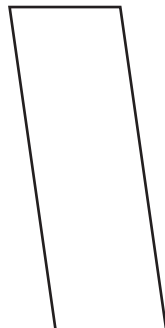
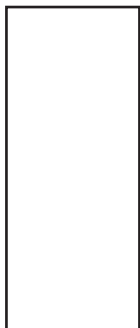
(a) What is the range of these scores?

..... [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.

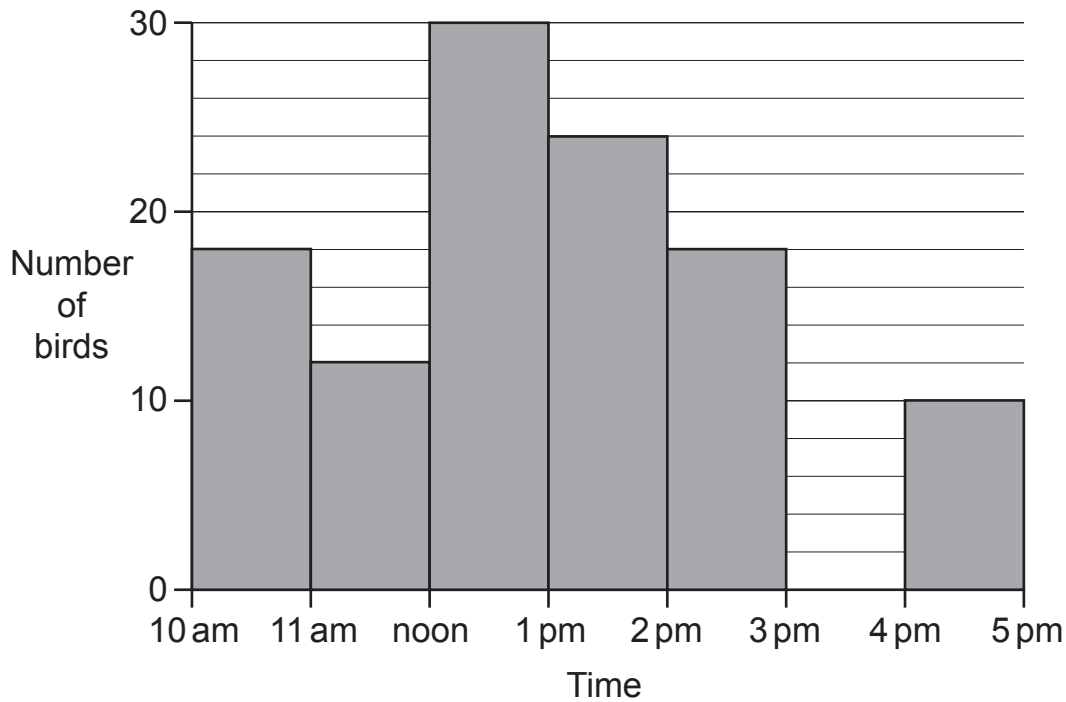
..... [1]

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

Write the name of this quadrilateral.

..... [1]

- 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

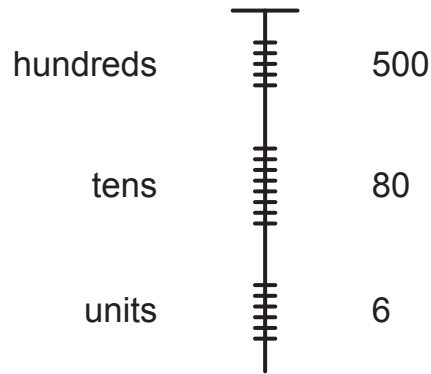
Explain your answer.

.....

..... [1]

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

The diagram shows how the number 586 is represented.

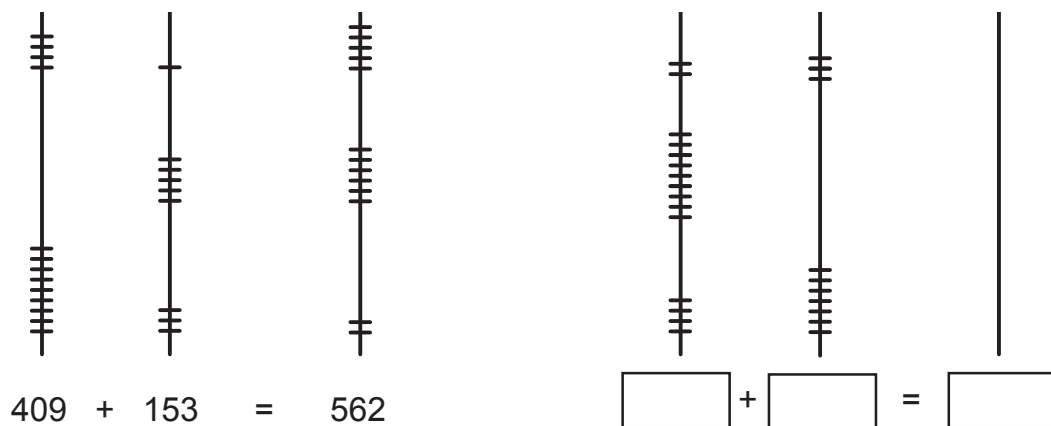


(a) Draw a diagram to show the number 345



[1]

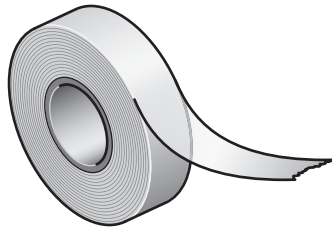
(b) The diagrams show Inca addition.



Complete the addition on the second diagram.

[1]

- 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.

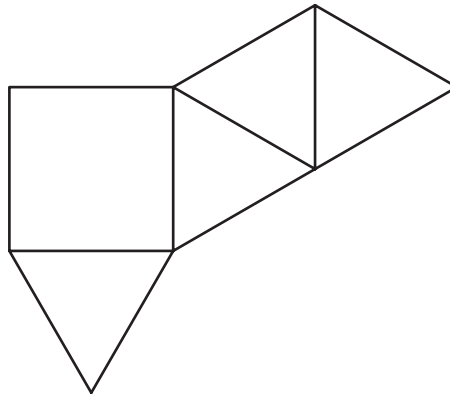
Lily says,

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]

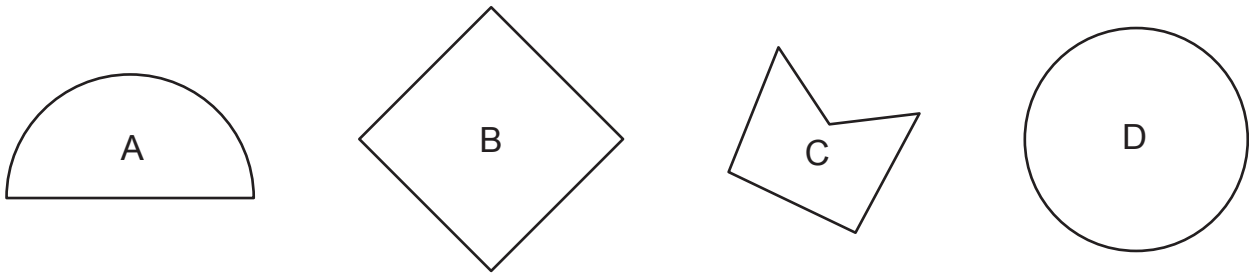
27 A running relay team has 4 runners.  
Their best time this year for 400 m is 43.7 seconds.  
The table shows the times for the first three runners.

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]

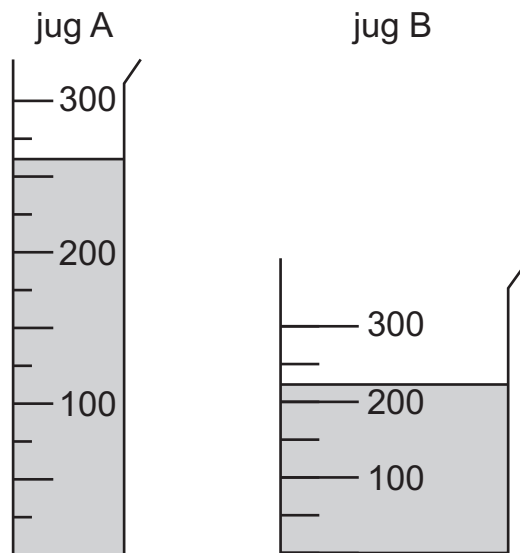
28 A, B, C and D are drawings of 2D shapes.



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]