Summer Progress check

Year 5

Mathematics

Paper 2: reasoning and problem solving

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

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White Rose Maths

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

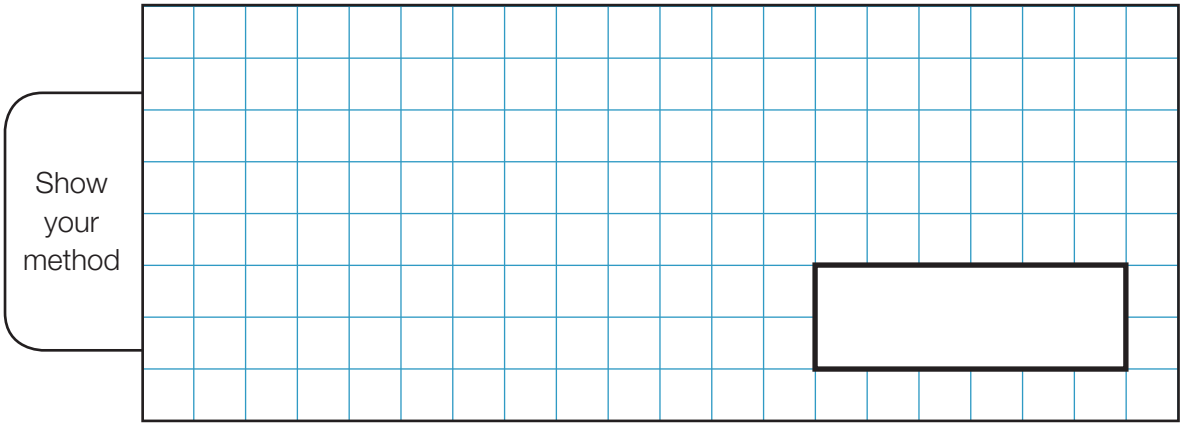
You have **50 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:



For these questions you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one**.

You can come back to it later, if you have time.

If you finish before the end, **go back and check your work**.

Marks

The number under each line at the side of the page tells you the maximum number of marks for each question.

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1 Circle the two multiples of 9 in the list below.

1 3 19 36 90

1 mark

Max circles some numbers on the grid.

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)

Tick the statements that are true.

All the circled numbers are multiples of 6 ☐

All the circled numbers are odd. ☐

All the circled numbers are multiples of both 2 and 3 ☐

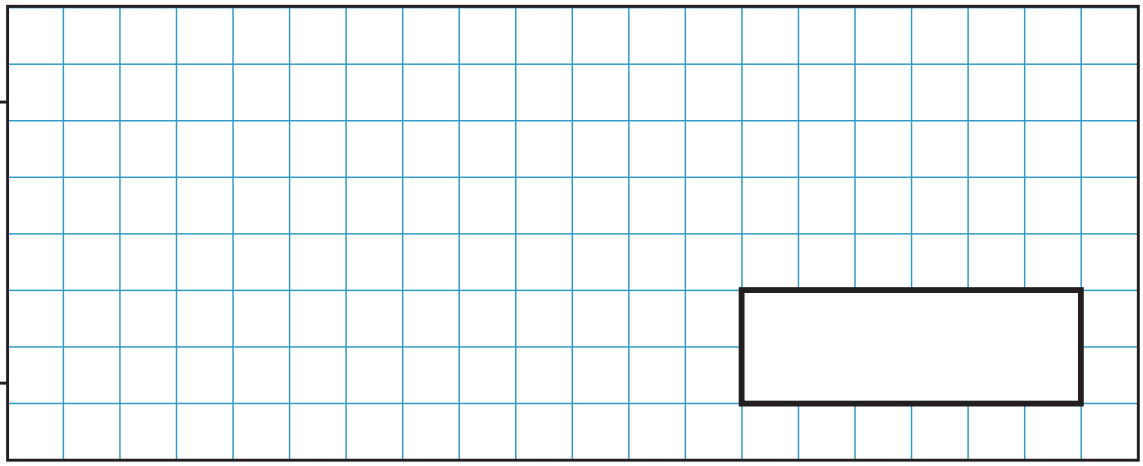
2 marks

White Rose Maths

2 Mr Kirk has 6 boxes of 20 oranges.

How many oranges does he have in total?

Show your method



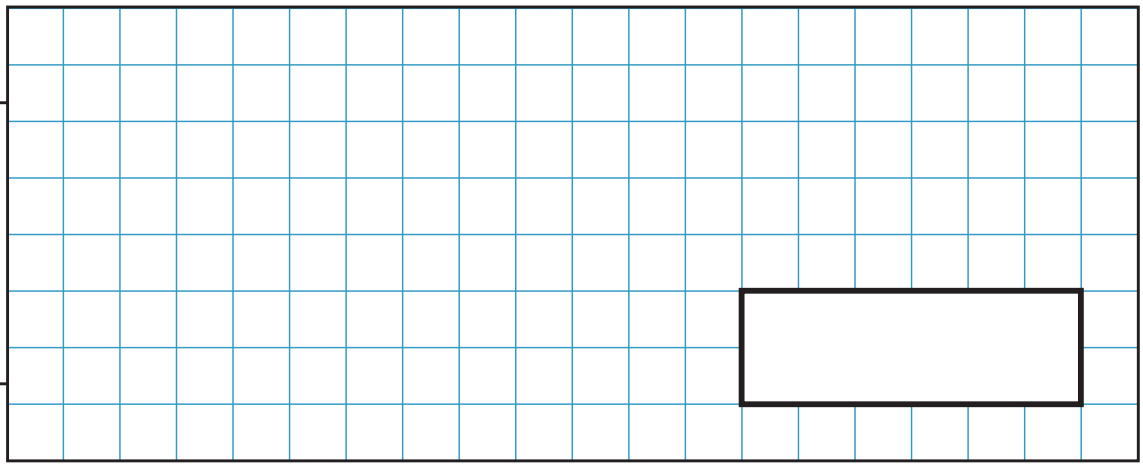
1 mark

Mr Kirk sells half of the oranges.

The remaining oranges are packed into bags of 5

How many bags of 5 oranges does Mr Kirk pack?

Show your method



1 mark

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3 In which number does the 3 digit represent 3 tens?

Circle your answer.

173 **3,715** **13,914** **1,738**

1 mark

In which number does the 7 digit represent 7 tenths?

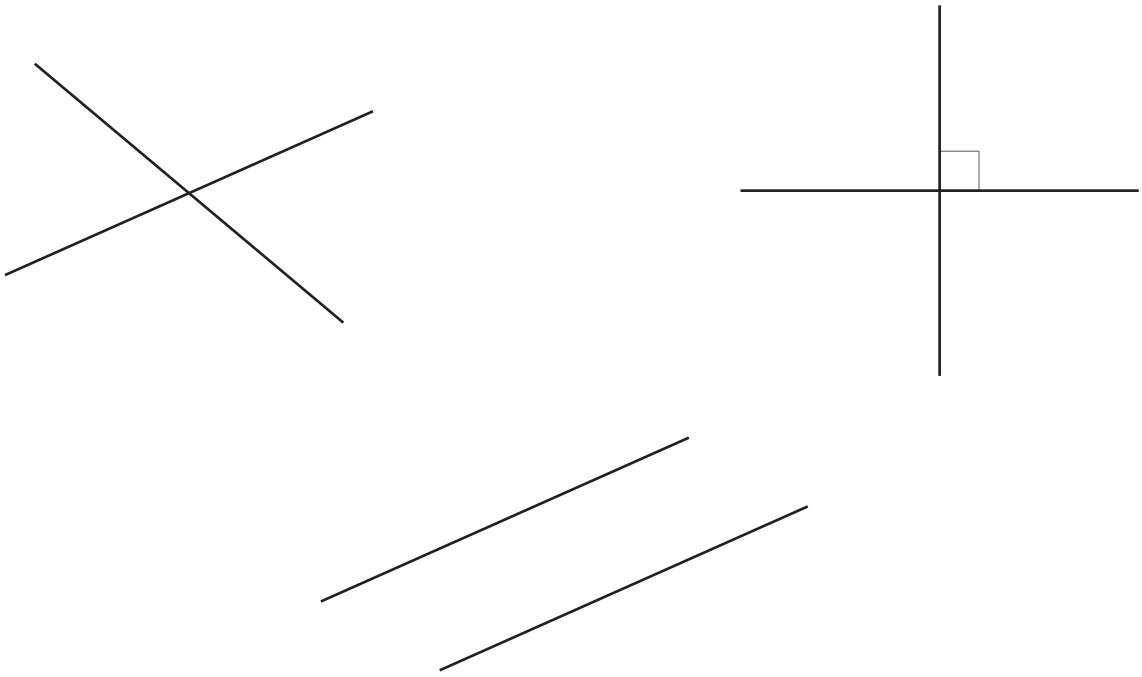
Circle your answer.

573 **57.2** **5.72** **0.572**

1 mark

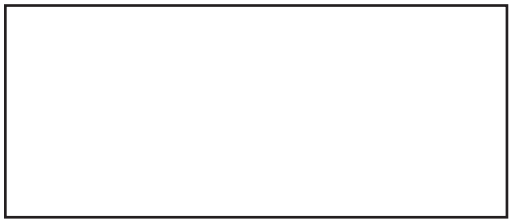
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4 Circle the pair of lines that are perpendicular.



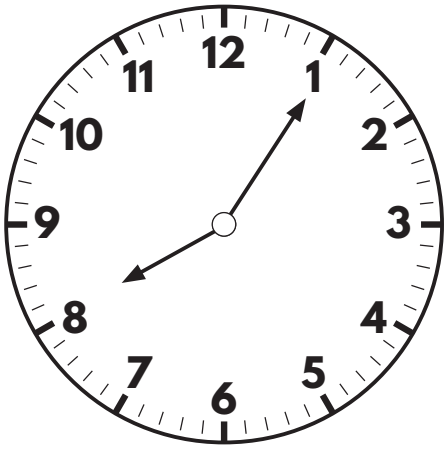
1 mark

Use arrows to mark **one** pair of parallel lines on the rectangle below.



1 mark

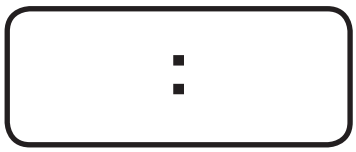
5 Saba leaves home at the time shown.



It takes her 35 minutes to get to school.

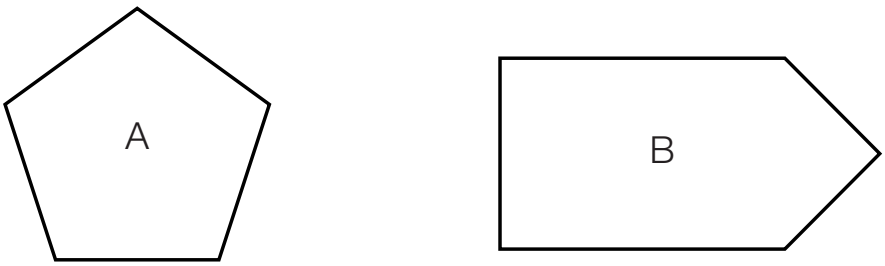
What time does Saba arrive at school?

Show the time on the digital clock.



1 mark

6 Here are two shapes.



Tick the correct box for each statement.

	True	False
Shape A and B are both pentagons.	☐	☐
Shape B is regular.	☐	☐
All the angles in shape A and B are obtuse.	☐	☐

2 marks

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7 Tom has 67 football stickers.

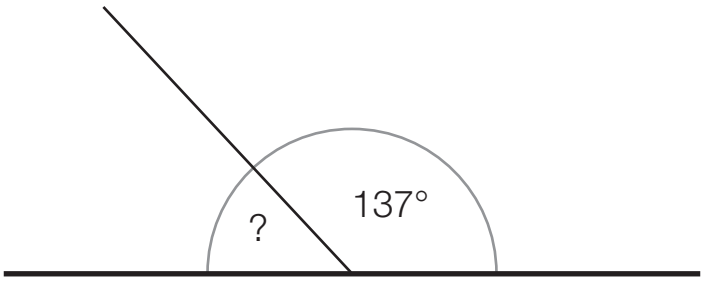
Max has 3 times as many stickers as Tom.

How many stickers do they have altogether?

Show your method

2 marks

8



Katie thinks the missing angle is 223°

Explain Katie's mistake.

1 mark

9 The numbers decrease by the same amount each time.

Complete each sequence.

16	12		4	0	

1 mark

1,792	1,772	1,752			

2 marks

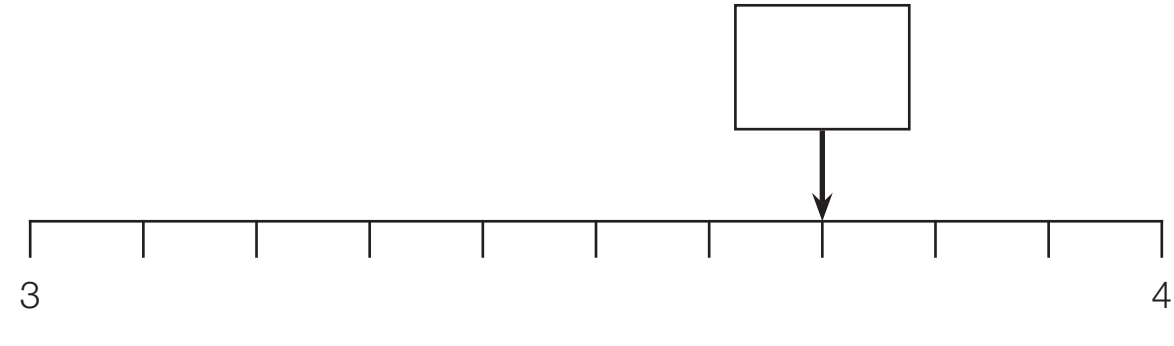
10 Complete the calculations.

0.6 + 1 tenth = ☐

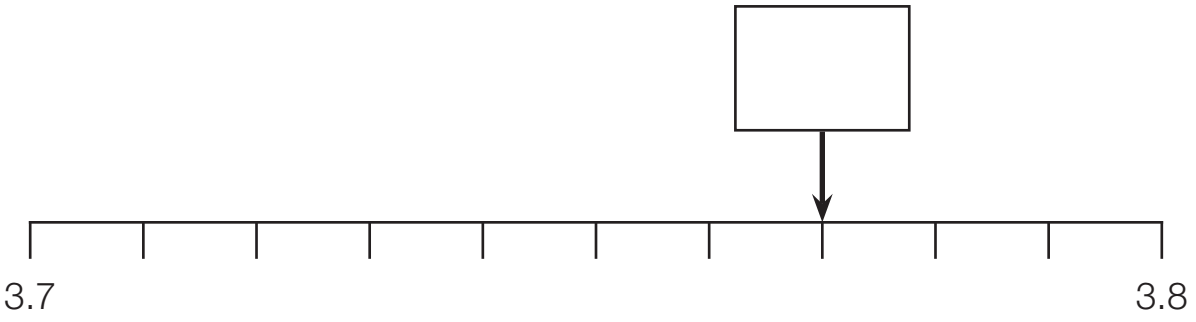
0.6 + 1 hundredth = ☐

2 marks

11 Fill in the decimals marked by each arrow.



1 mark



1 mark

12 Aisha runs 4 laps of a running track.

The total distance Aisha runs is 800 metres.

Ben runs 7 laps of the same track.

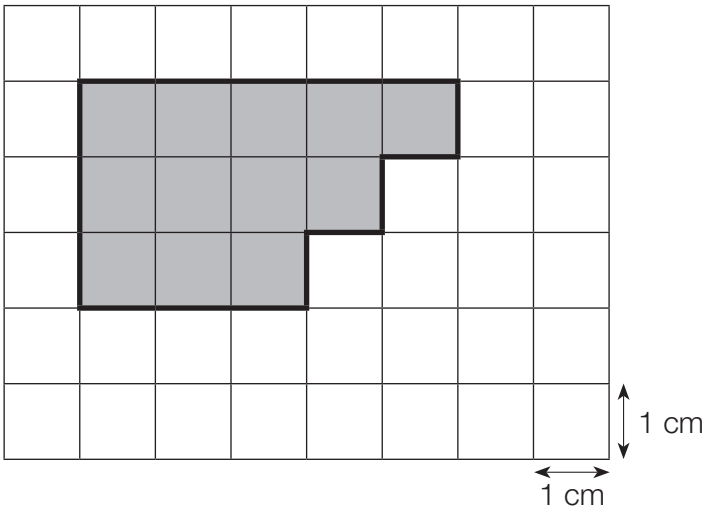
How far does Ben run?

Show your method

m

2 marks

13 A shape is drawn on a centimetre square grid.

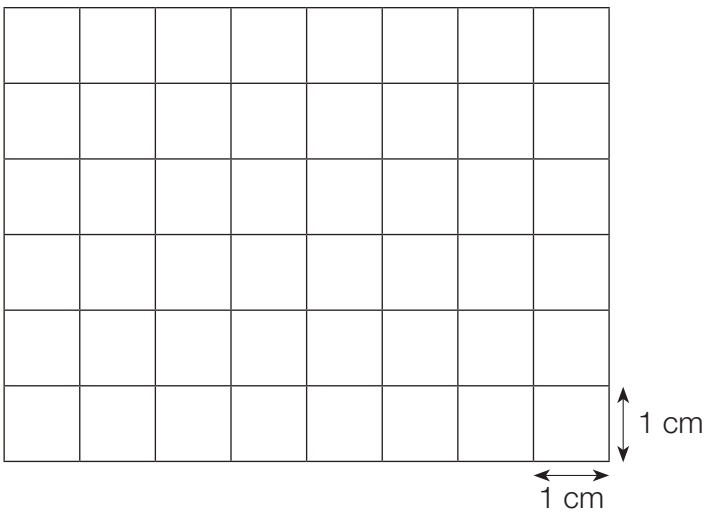


What is the area of the shape?

cm²

1 mark

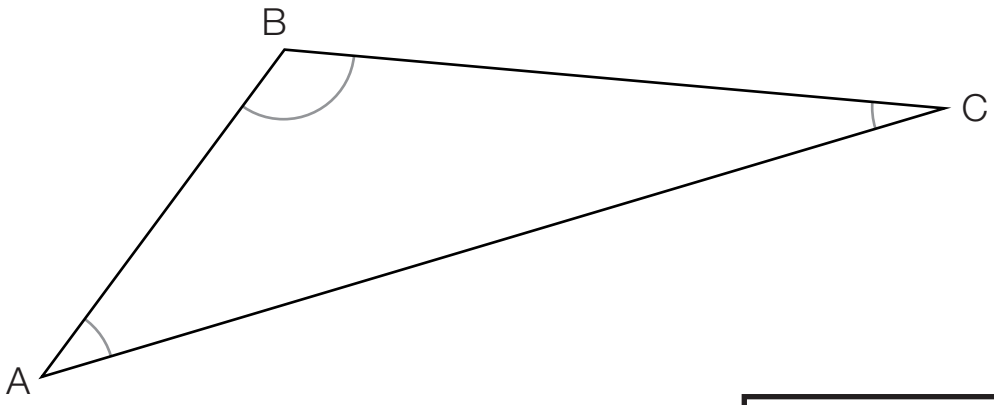
Draw a shape with an area that is **three quarters** the size of the one above.



1 mark

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14 Measure the angle at B.

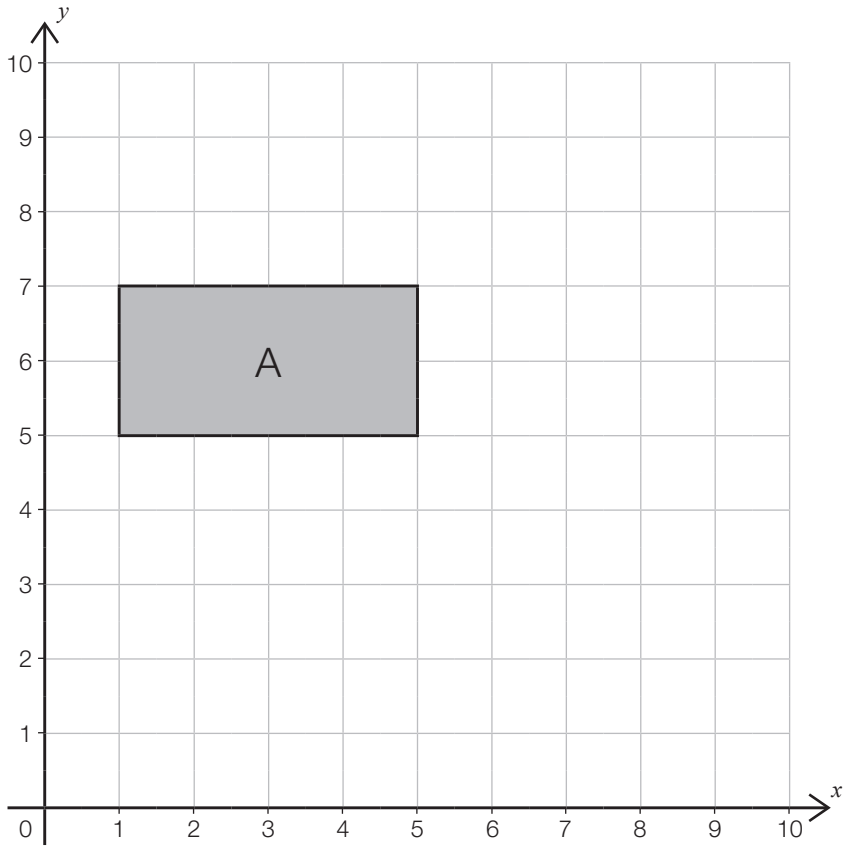


°

1 mark

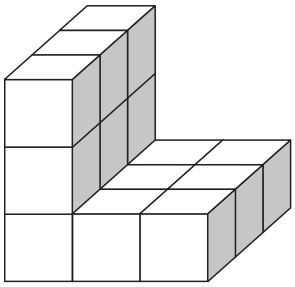
15 Rectangle A is translated 4 squares right and 3 squares down.

Draw the new rectangle.



1 mark

16 Max has made a 3D shape using centimetre cubes.



Max says,



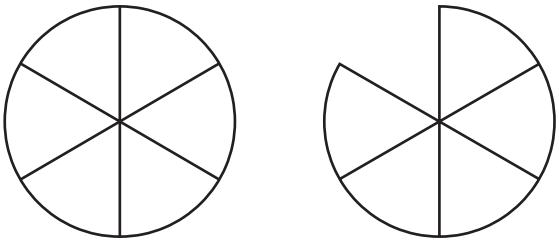
The shape has a volume of 13 centimetre cubes.

Is Max correct?

Explain your answer.

1 mark

17 Write $1\frac{5}{6}$ as an improper fraction.



You can use the diagram to help you.

1 mark

Write $\frac{13}{5}$ as a mixed number.

1 mark

Use the **same** number to complete the boxes.

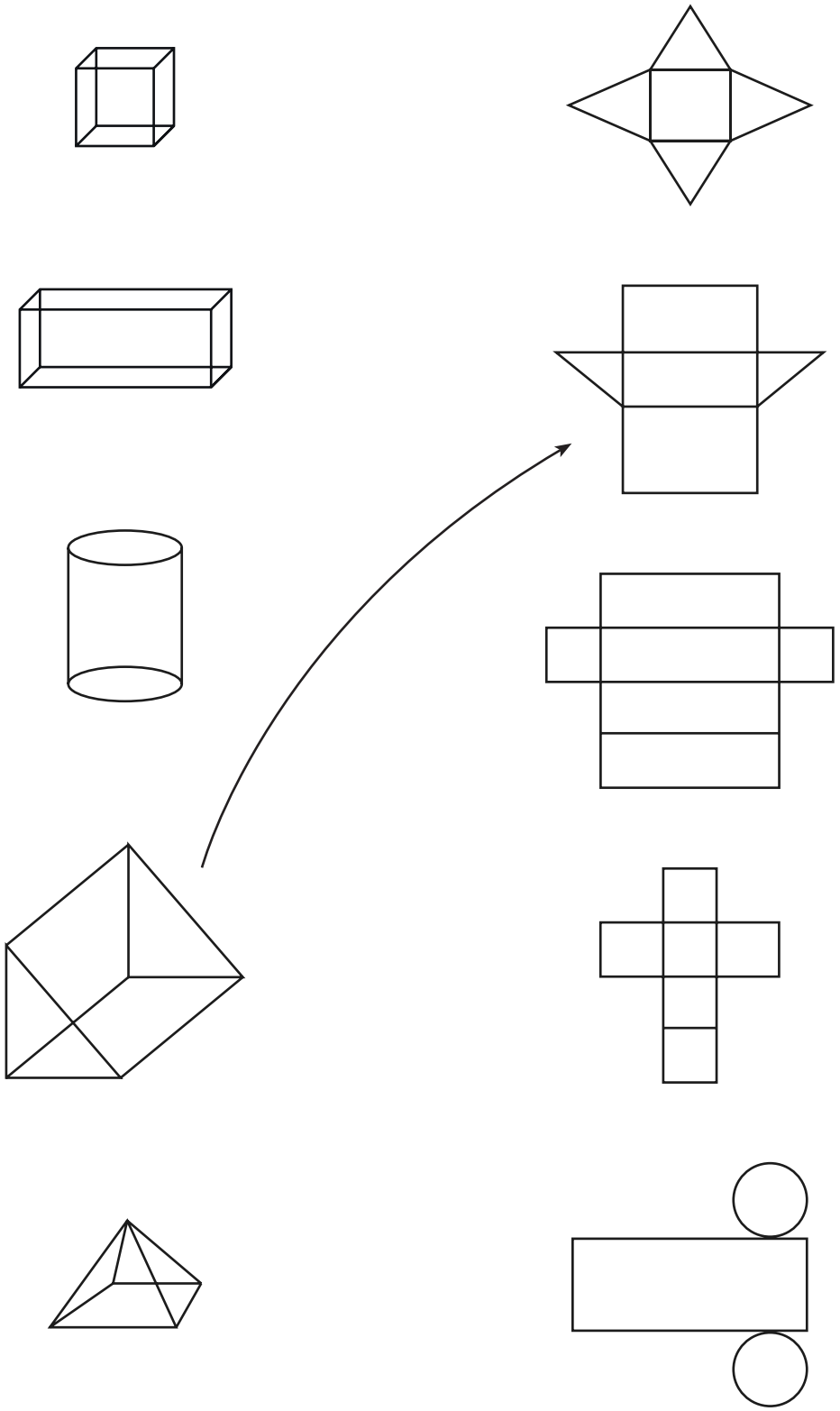
$$3\frac{4}{\square} = \frac{25}{\square}$$

1 mark

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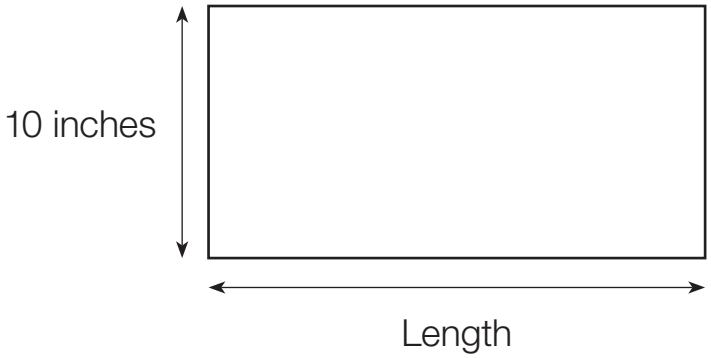
18 Match each net to the correct 3D solid.

One has been done for you.



2 marks

19 The length of a paving slab is **double** the width.



One inch is approximately 2.5 cm.

Work out the approximate length of the paving slab in centimetres.

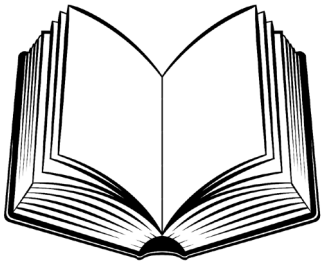
Show your method

cm

2 marks

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20 Kate's book has 280 pages.



She reads a quarter of the book on Monday.

She reads 50% of the remaining pages on Tuesday.

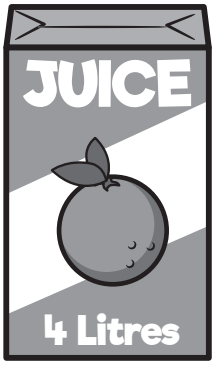
Calculate how many pages of the book Kate read on Tuesday.

Show your method

pages

2 marks

21 Eva buys 4 litres of juice.



She drinks 750 ml of the juice herself and shares the rest between her five friends.

How much juice does each friend get?

Show your method

ml

2 marks

END OF TEST

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