Ma

KEY STAGE

12-5

2007

Mathematics

Paper 2

Calculator not allowed

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				



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Instructions

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

Work as quickly and as carefully as you can.

You have 45 minutes for this test.

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.

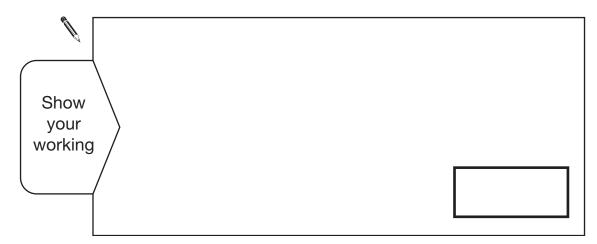
Follow the instructions for each question carefully.



This shows where you need to put the answer.

If you need to do working out, you can use any white space on a page. Do not write over any barcode.

Some questions have an answer box like this:



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



1 Write in the missing number.

1 mark

Put these temperatures in order, starting with the **lowest**.

21°C

-13°C

-24°C

0°C

35°C

°c

°C

°C

°C

°C

lowest

These are some prices in a fish and chip shop.

Fish	£2.30	Peas	35p
Sausage	£1.80	Curry sauce	40p
Chips (small bag)	60p	Bread roll	30p
Chips (large bag)	90p	Pickled onion	28p

Alfie buys one fish, a large bag of chips and a pickled onion.

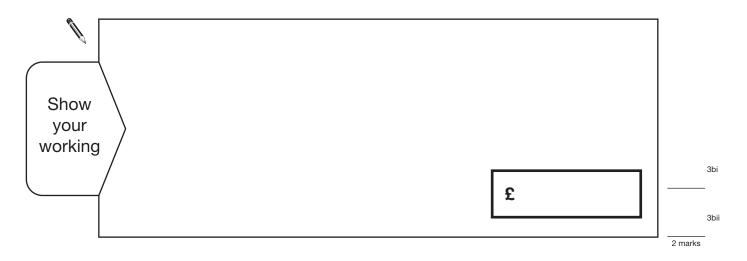
How much does he pay?



Megan buys a sausage and a bread roll.

Chen buys a small bag of chips and a curry sauce.

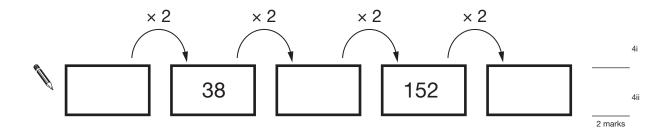
How much **more** does Megan pay than Chen?





Here is a doubling sequence.

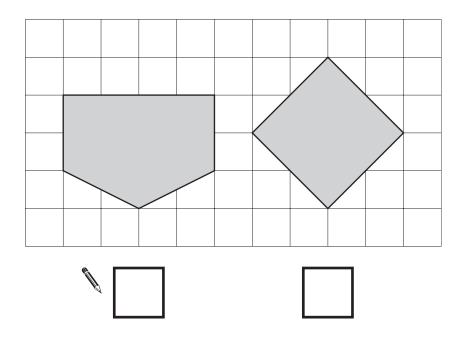
Write the three missing numbers.



5

Here are two shapes on a square grid.

For each shape, write how many right angles it has.

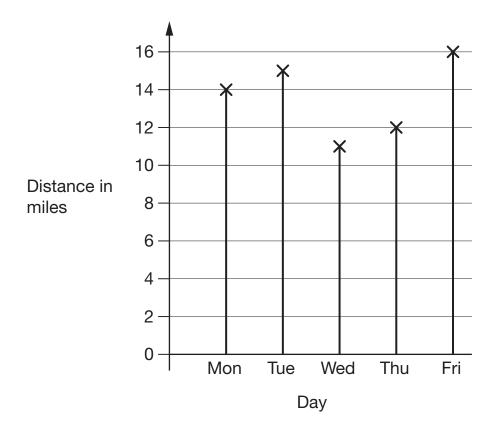


5



Amy went on a cycling holiday.

This chart shows how far she cycled each day.



How much further did Amy cycle on Friday than on Wednesday?



How far did Amy cycle **altogether** on the three days she cycled the most?

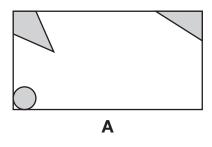


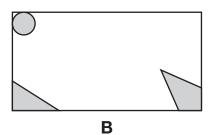


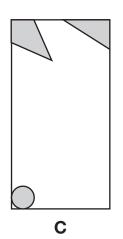
Megan has a rectangular tile with this design on it.

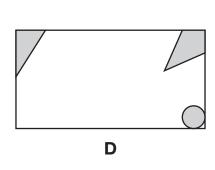


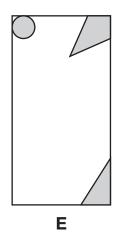
Here are five more rectangular tiles.











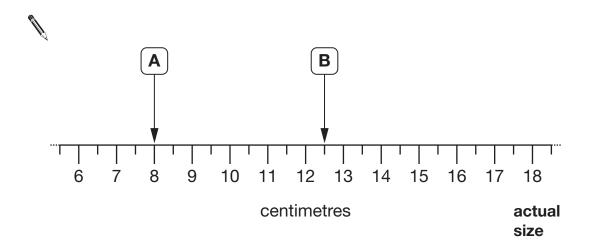
Write the letters of **all** the tiles that have the same design as Megan's tile.

7i -------7ii

2 marks



Here is part of a centimetre scale, with two points marked.



What is the distance between point **A** and point **B**?



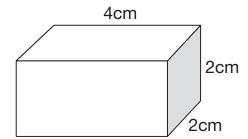
Point C is twice as far from point A as it is from point B.

On the scale above, mark one place where point C could be.

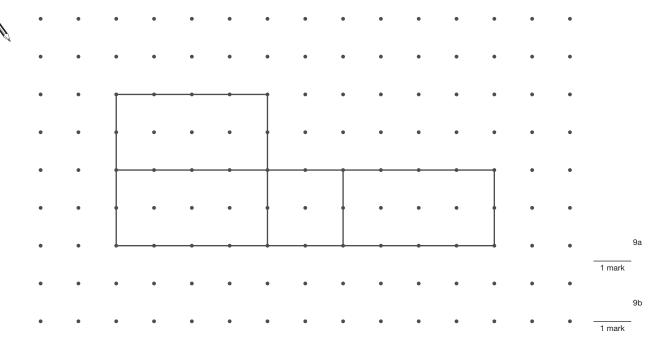
8b 1 mark



Look at the cuboid below.

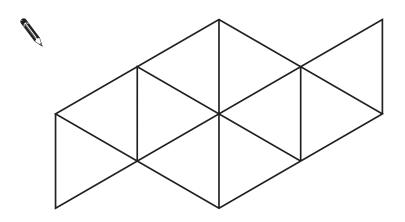


Draw two more faces to complete the net of the cuboid.



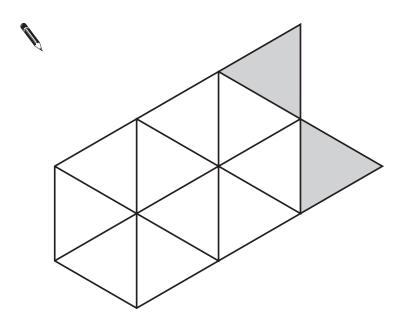


Shade $\frac{1}{5}$ of this shape.



10a

Shade **more** triangles on this shape so that $\frac{1}{3}$ is shaded.

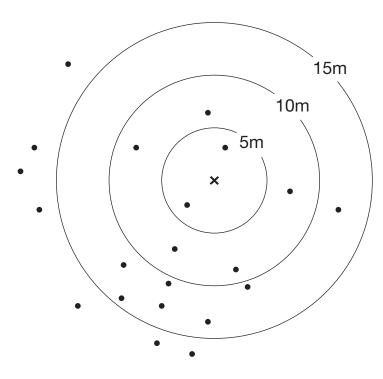


10



Class 6 did a survey of mushrooms growing in a field.

The diagram shows the distances of mushrooms from the centre of the field.

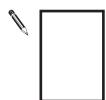


- × is the centre of the field
- is a mushroom

How many mushrooms were more than 10 metres from the centre?



What **fraction** of the mushrooms were less than 10 metres from the centre?



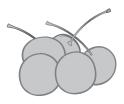
11b



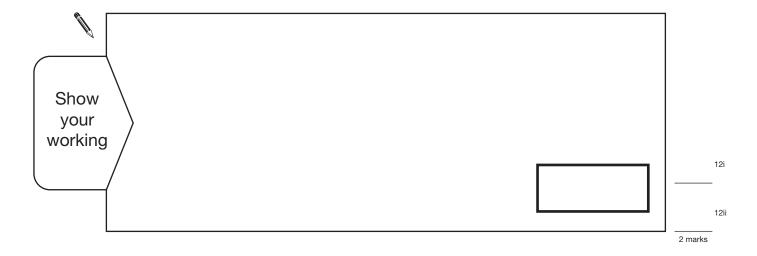
Seb had some cherries.

Every day he ate 10 cherries and gave 5 away.

After he gave the last 5 cherries away, he had eaten 40 cherries altogether.



How many cherries did Seb have at the start?





,	
	(P)

Here are five number cards.

48

49

50

51

52

Use each card **once** to make every statement below correct.

is a multiple of 3



is a multiple of 4



is a multiple of 5



is a multiple of 6



is a multiple of 7

13i

13ii

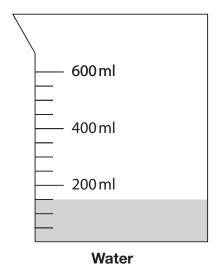
2 marks

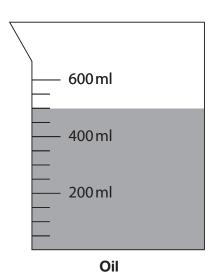


Write in the missing number. 14

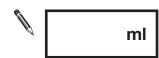
1 mark

15 One jug contains water and the other jug contains oil.



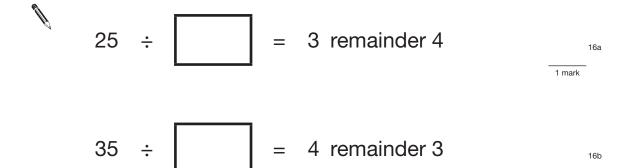


How much more oil is there than water?



15

Write the missing number in each calculation.





Here is part of the morning bus timetable from Winton to Yansley.

Winton	9:35	9:55	10:15	10:35
Ingham	9:45	10:05	10:25	10:45
Carston	10:01	10:21	10:41	11:01
Dubley	10:23	10:43	11:03	11:23
Yansley	10:55	11:15	11:35	11:55

How many minutes does the bus take to get from Ingham to Dubley?



Megan is in Carston.

She wants to be in Yansley before 11:30

What is the time of the latest bus she can take from Carston?



One morning, the 10:35 bus from Winton gets to Carston 3 minutes early.

What time does it get to Carston?





Circle the number that is closest to 20

19.95

20.1

19.09

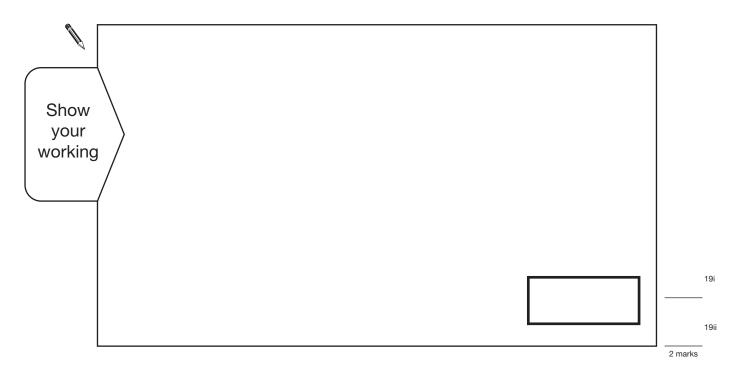
20.09

20.201

1 mark

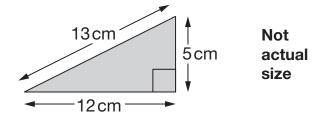
18

19 Calculate 936 ÷ 36

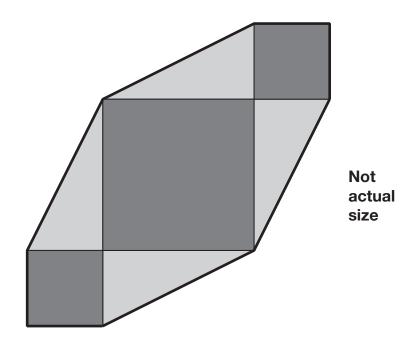




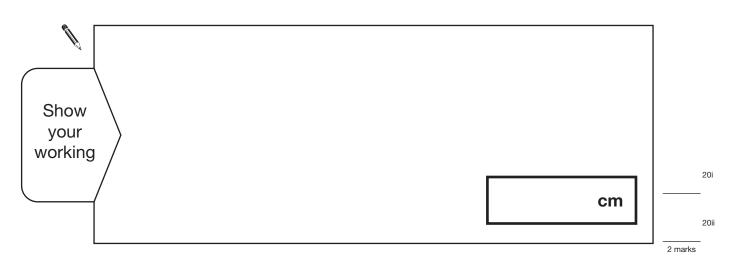
Chen has some right-angled triangular tiles.



He makes this shape with four of his triangular tiles and three square tiles.



What is the **perimeter** of Chen's shape?





The numbers in this sequence increase by equal amounts each time.

Write in the three missing numbers.

1



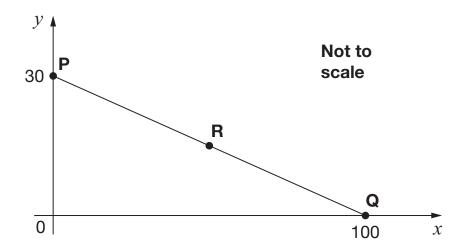


7

21i
1 mark
21ii
1 mark

22

In this diagram ${f R}$ is an equal distance from ${f P}$ and ${f Q}$.



What are the coordinates of R?

$$R =$$
 (,)

22

Megan and Chen each have a bag of counters.

Megan's bag has 5 blue counters and 5 green counters.

Chen's bag has 10 blue counters, 5 green counters and 5 red counters.



Megan's bag



Chen's bag

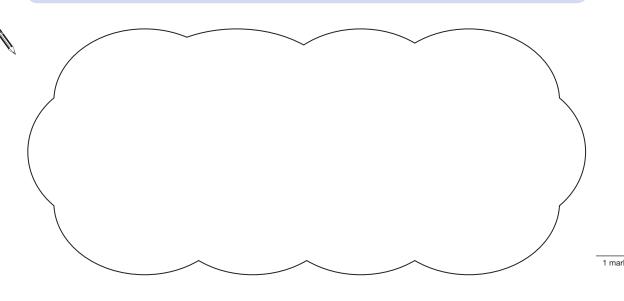
They each take a counter from their bag without looking.

Chen says,

'I am more likely than Megan to take a blue counter.'

Is Chen correct? Circle **Yes** or **No**. Yes / No

Explain how you know.





[END OF TEST]

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