Ma

KEY STAGE

Mathematics tests

LEVELS 3-5

Test B

Calculator allowed

First name

Middle name

Last name

Date of birth Day Month Year

School name

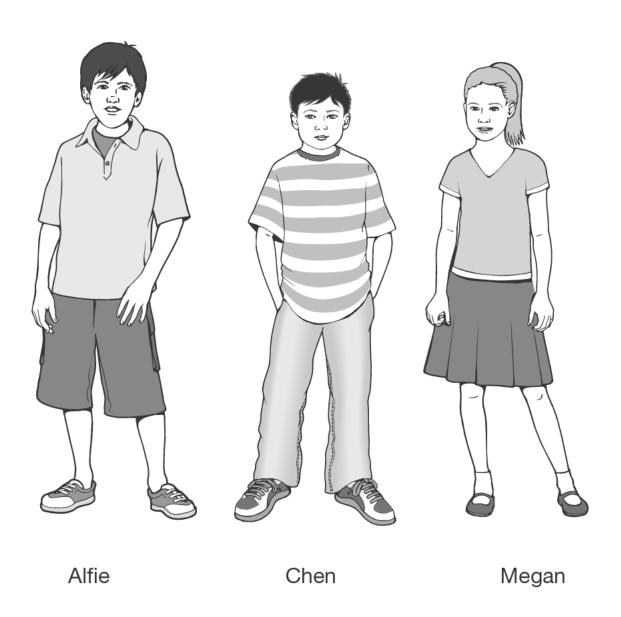
DfE number

For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
Total	

200

These three children appear in some of the questions in this test.



Instructions

You may use a calculator to answer any questions in this test.

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.

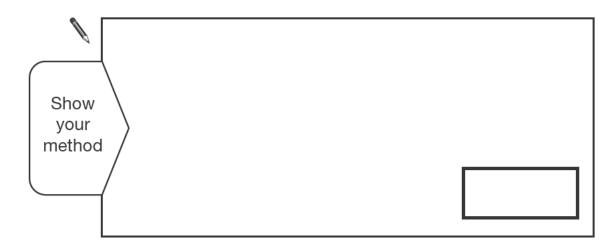
Follow the instructions for each question carefully.



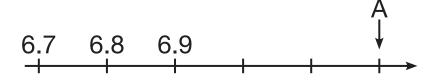
This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.

Some questions have an answer box like this:



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



What number is marked at A?



At a tournament there are 7 players in each team.

There are 112 players altogether.

How many teams is this?



Use **four** of the cards to make this addition correct.



- **A** 12 × 12 10
- **B** 13 × 13 20
- **C** $14 \times 14 40$
- **D** $15 \times 15 80$
- **E** 16 × 16 160

Write the letter of the calculation that has the greatest answer.

1 mark

Write the letter of the calculation that has the answer closest to 100

4b

This pictogram shows the number of ice creams a shop sold in one day.



vanilla			1
strawberry		1	
chocolate			•

How many **more** chocolate than strawberry ice creams were sold?



How many ice creams were sold altogether?



Here a	re four	lines: A,	В.	С	and	D.
	0 . 0 0	,	-,	_	~	

A		
В		
С		

Which two lines have a total length of 18cm?



Draw a straight line that is 3 centimetres longer than line **B**.

Use a ruler.

D

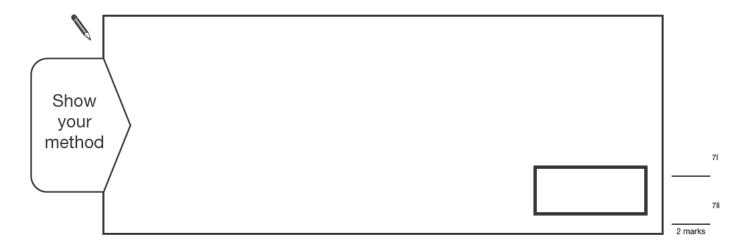


Books are 25p each at a car boot sale.

Alfie wants to buy 12 books.

He only has £2.35

How much more money does Alfie need?



g

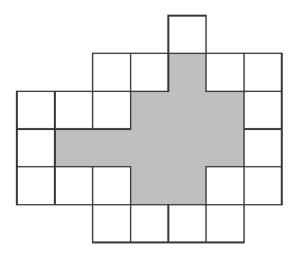
Write the missing number.

1 mark

Monday	Closed
Tuesday to Friday	11am to 6:30pm
Saturday	10am to 6pm
Sunday	10:30am to 4:30pm

How many hours is the castle open on Saturdays?	
hours	9a 1 mark
Alfie arrived at the castle at 5pm on a Thursday.	
How long could he stay before closing time?	
	9b

Here is a set of 20 squares around a shaded space.



What is the area of the shaded space?

		ı
		10
4	squares	10
	-	1 mark

Five children took part in a chess competition.

They each played six games.

This table shows how many games each child won, drew or lost.

	won	drew	lost
Alfie	1	3	2
Megan	2	2	2
Chen	3	3	0
Donna	4	0	2
Tom	0	5	1

How many children drew more games than they lost?



Each child scores two points for a win, one point for a draw, no points for a loss.

Who scored the most points?

	11b
	1 mark

6

7

Use each card **once** to make these statements correct.



4 6

<

2

0

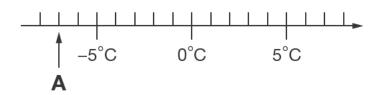
5 6

>

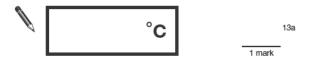
7 6 <

12

1 mark



What is the temperature shown at A?



What temperature is 20 degrees higher than A?



Here are five number discs.









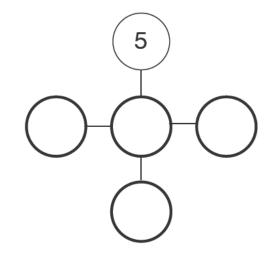


Look at the cross pattern below.

Use each disc **once** so that the total across is the same as the total down.

One has been done for you.





1

1 mark

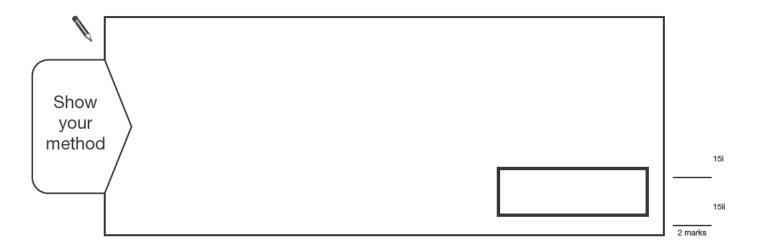
15 Megan

Megan wants to fill a bucket with water.

A bucket holds 6 litres.

A jug holds 500 millilitres.

How many jugs of water does Megan need to fill an empty bucket?



Write in the missing number.

1 mark

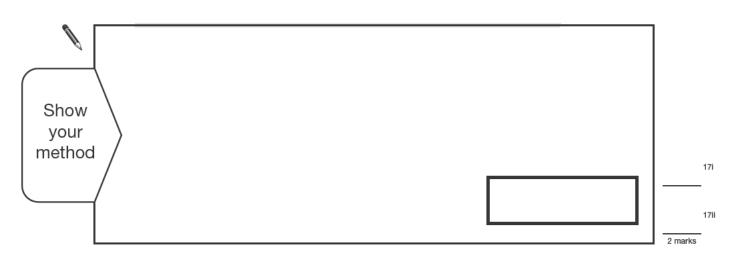


Chen bought three jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?



Write the two missing digits in this multiplication.

B	
1/4	
A	

1 mark

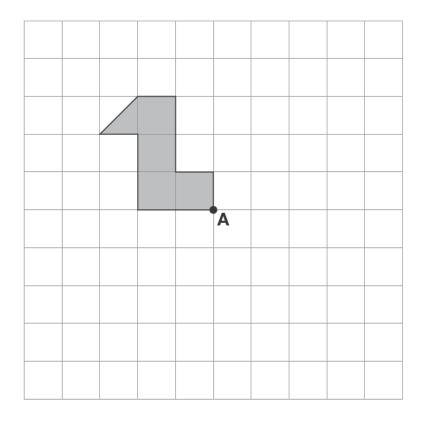
19

Here is a shaded shape drawn on a square grid.

The shape is rotated 180° about point A.

Draw the shape in its new position on the grid.





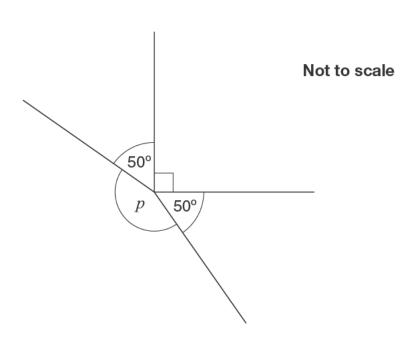
19i

19ii

2 marks

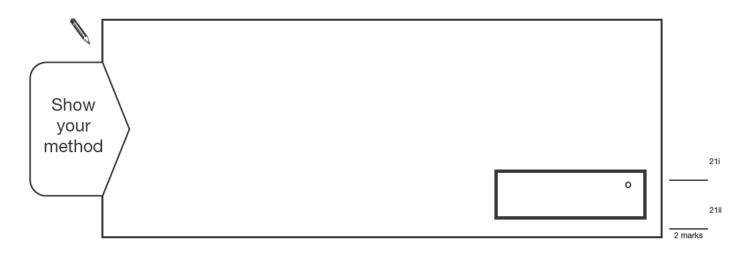


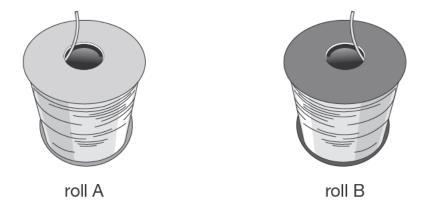
20



Calculate the size of angle \emph{p} in the diagram.

Do **not** use a protractor (angle measurer).



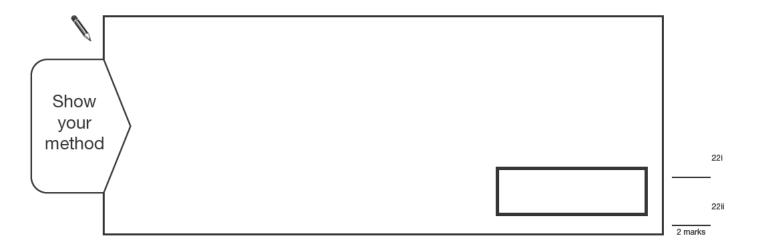


Two rolls, A and B, each have 45 metres of wire on them.

The wire on roll A is cut into 1.25m lengths.

The wire on roll B is cut into 2.25m lengths.

How many **more** lengths of wire are cut from roll A than roll B?



36 and 64 are both square numbers.

They have a sum of 100

Find two square numbers that have a sum of 130

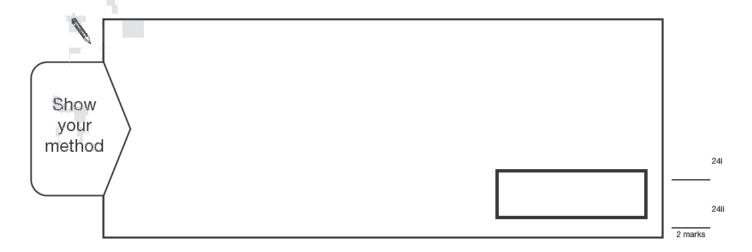


24

364 is a multiple of 7 but not a multiple of 3

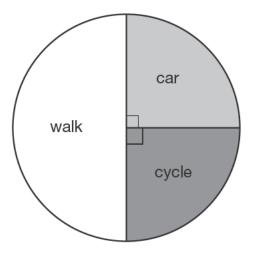
384 is a multiple of 3 but not a multiple of 7

Find a number between 364 and 384 that is **both** a multiple of 7 **and** a multiple of 3

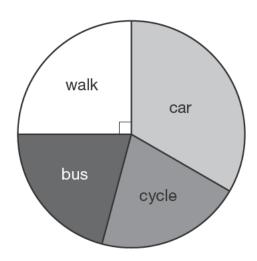


'How do you travel to school?'

Here are her results.



Foxwood school **80** children



Midtown school **240** children

Megan says,

'The number of children walking to Foxwood school is more than the number walking to Midtown school.'

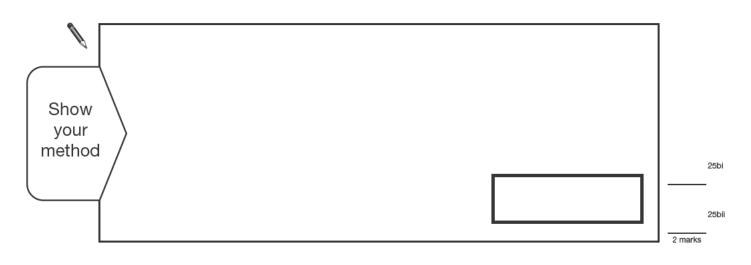
Is she correct?
Circle Yes or No.

Explain how you know.

At Midtown school, one third of children travel by car.

The number of children who cycle is the same as the number who go on the bus.

How many children cycle to Midtown school?





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