

KEY STAGE

LEVELS

## Mathematics tests

# Test B

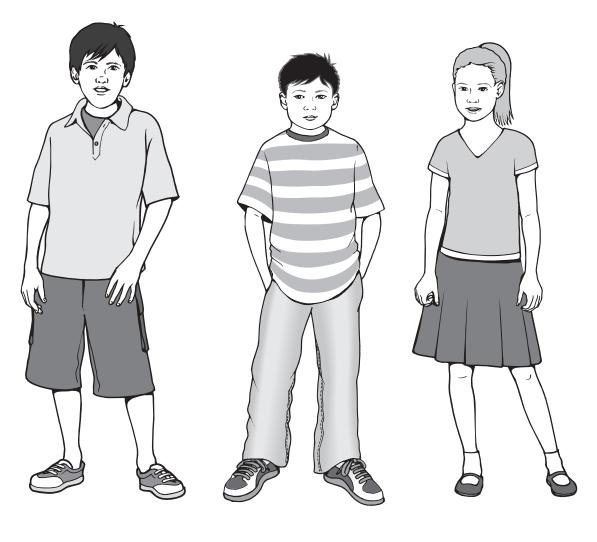
# Calculator allowed

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	

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



Alfie

Chen

Megan

## 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.

Ŋ

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

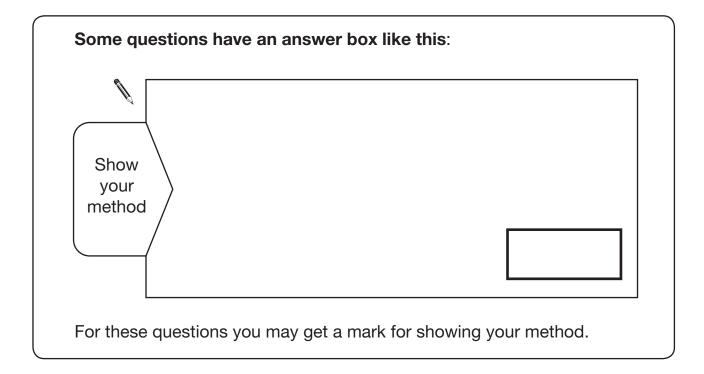
You can come back to it later, if you have time.

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

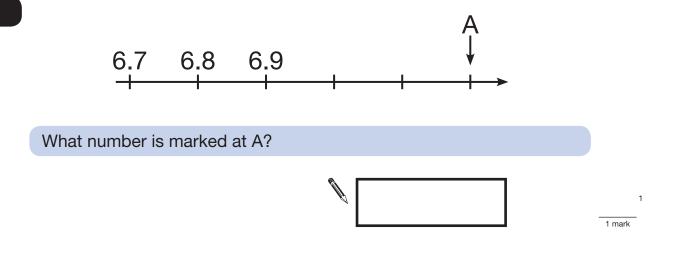
Follow the instructions for each question carefully.

This shows where you need to put the answer.

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







2

At a tournament there are 7 players in each team.

There are 112 players altogether.

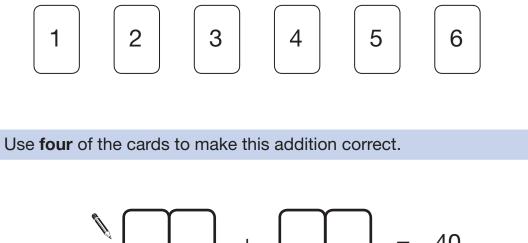
How many teams is this?

ß	 I	
Ø		
`		2
	1 mark	

3



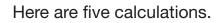
3

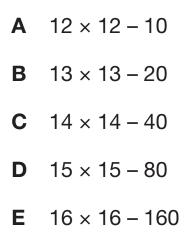




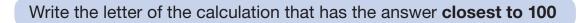
4a

1 mark



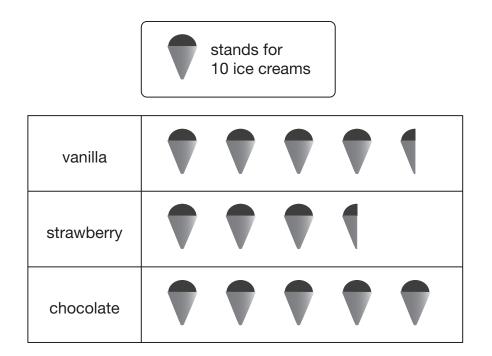


Write the letter of the calculation that has the **greatest** answer.

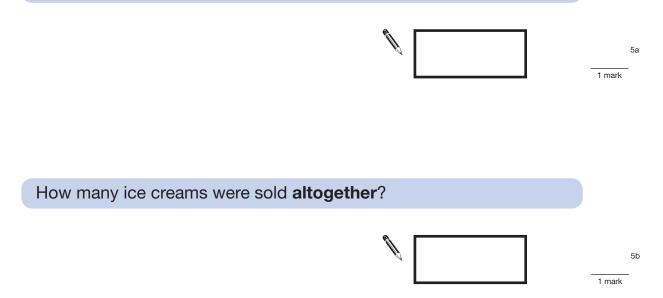


Ŋ





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



Total out of 4

5

6b

1 mark

Here are fou	r lines: A,	B, C	and D.
--------------	-------------	------	--------

6

Α		
В		
С		 _
D	_	

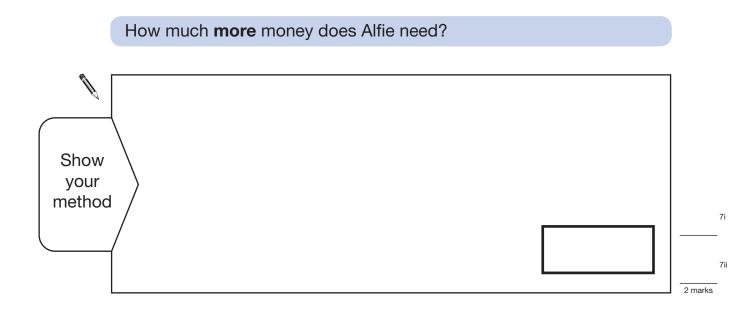
Which two lines have a total length of 18cm?

Books are 25p each at a car boot sale.

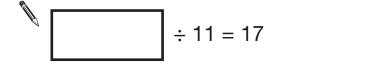
Alfie wants to buy 12 books.

He only has £2.35

7



8 Write the missing number.



1 mark

8

Total out of 5

These are the opening times at Black Tower Castle.

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

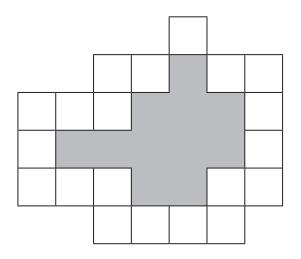
How many hours is the castle open on Saturda	ys?	
	hours	9a 1 mark

Alfie arrived at the castle at 5pm on a Thursday.

How long could he stay before closing	ime?
ß	
	9b
	1 mark

10

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



What is the area of the shaded space?

Ŵ	squares	1 mark
		i mark

10

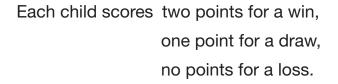
Five children took part in a chess competition.

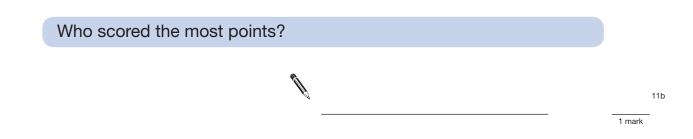
They each played six games.

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?

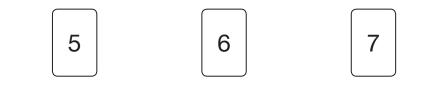




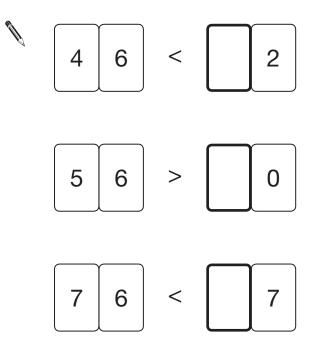
11a

1 mark





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

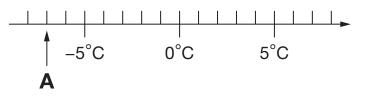


12

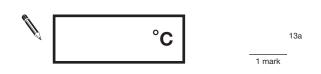
1 mark

Total out of 3

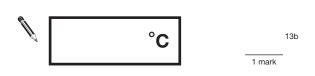
Here is part of a temperature scale.



What is the temperature shown at A?



What temperature is 20 degrees higher than A?



#### Here are five number discs.

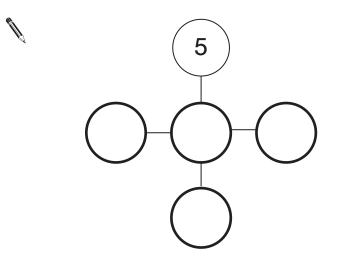
14



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.



14

1 mark

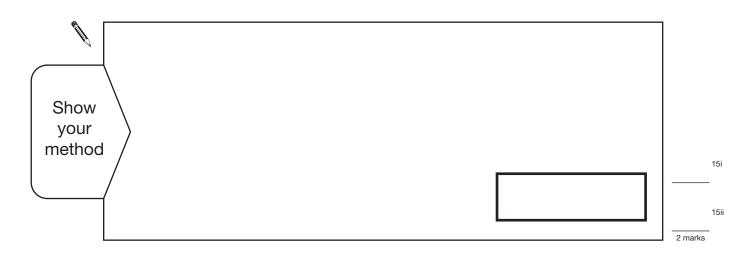
Megan wants to fill a bucket with water.

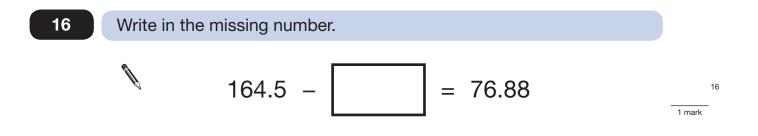
A bucket holds 6 litres.

15

A jug holds 500 millilitres.

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





A shop sells jars of honey and honey dippers.





jar of honey

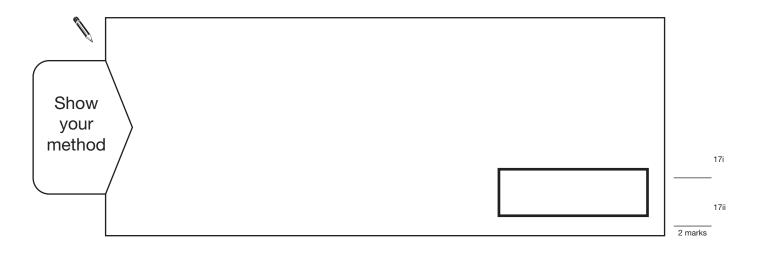
honey dipper

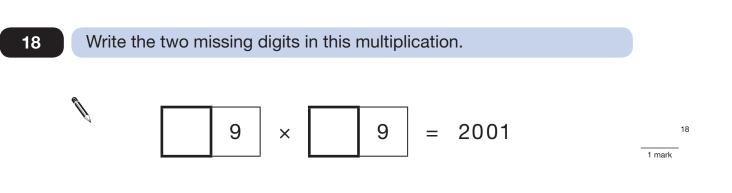
Chen bought three jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?

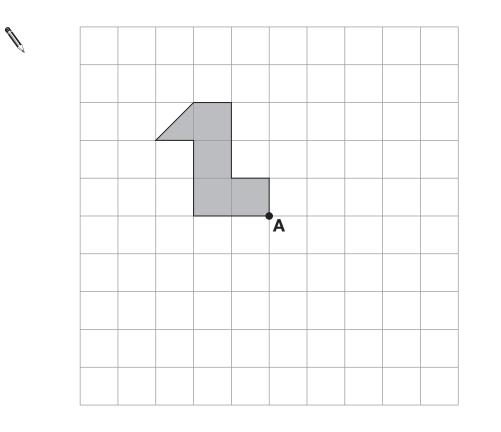




19 Here is a shaded shape drawn on a square grid.

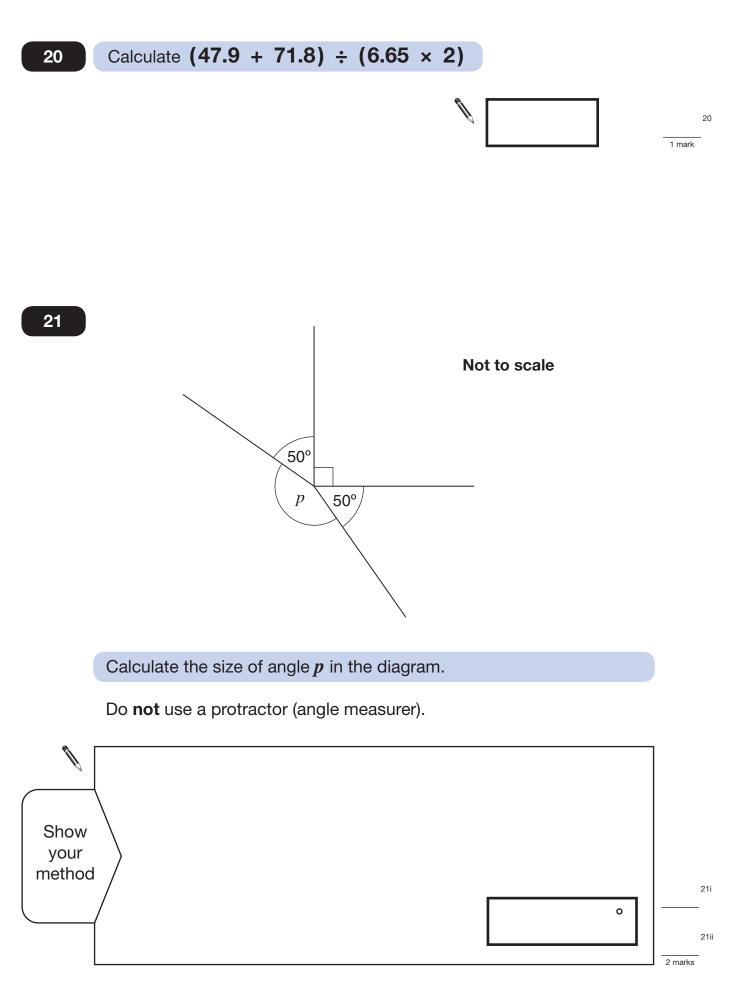
The shape is rotated 180° about point A.

Draw the shape in its new position on the grid.



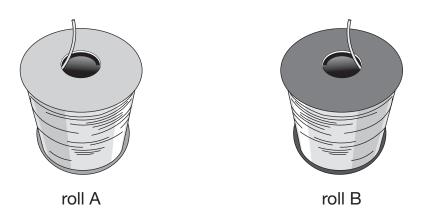
19i

19ii 2 marks



Total out of 6

#### A shop sells rolls of wire.

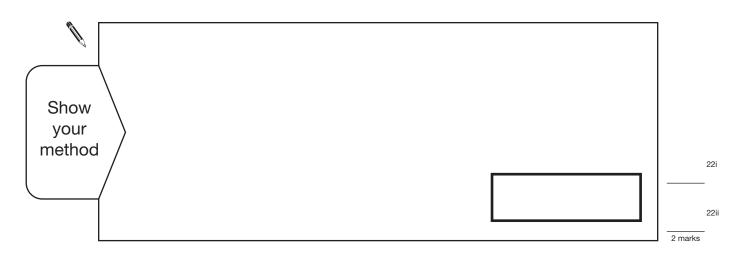


Two rolls, A and B, each have 45 metres of wire on them.

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?



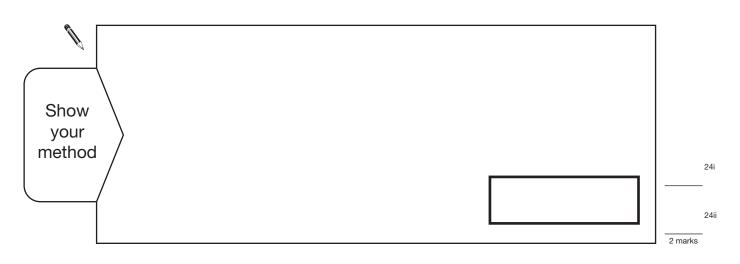


36 and 64 are both square numbers.

**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



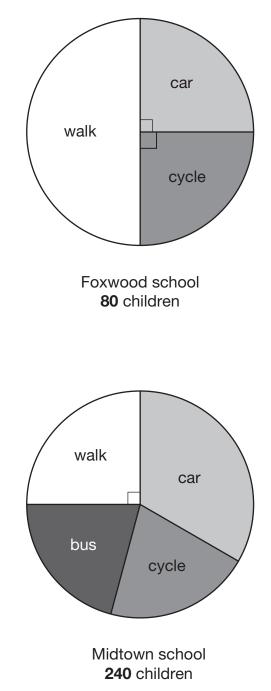
Total out of 5

23

Megan asked children from two different schools,

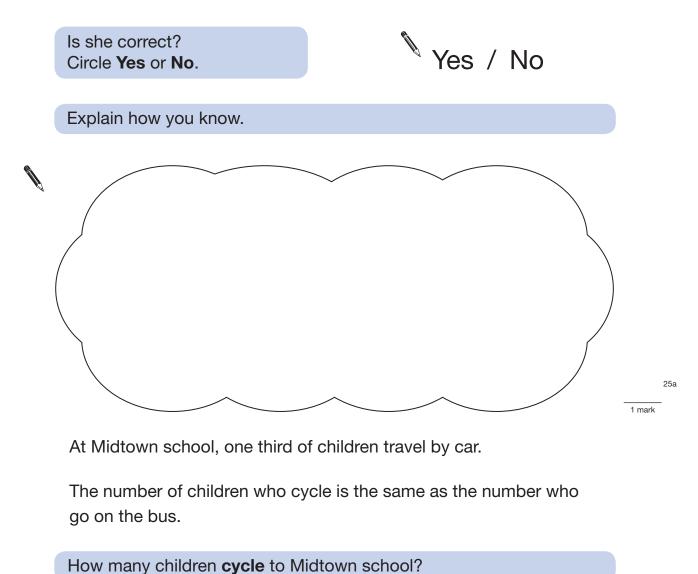
#### 'How do you travel to school?'

Here are her results.



Megan says,

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



Show your method

Total out of 3



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