Ma

KEY STAGE 2

3-5

# 2002

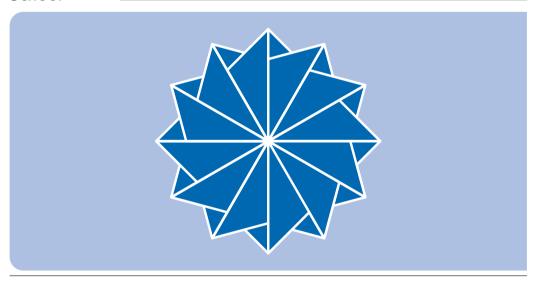
# Mathematics test

# Test A

# Calculator not allowed

First name \_\_\_\_\_\_Last name \_\_\_\_\_\_

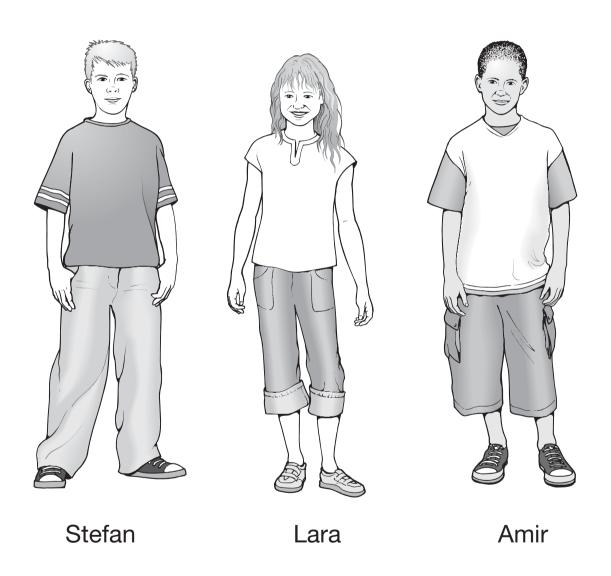
School



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.



#### Instructions

You may not 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.

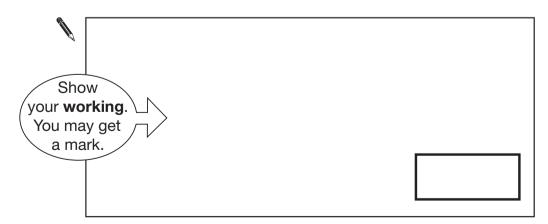
#### Follow the instructions for each question carefully.



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 working.

1

12:30 am

12:30 pm

11:30am

11:30pm

3am

1 mark

2 Here are four digit cards.

4

6

2

7

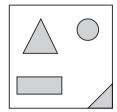
Use all four digit cards to make this sum correct.



+

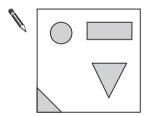


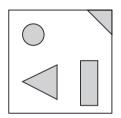
100

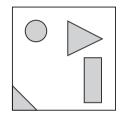


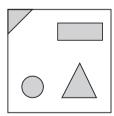
He turns the tile.

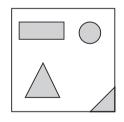
Put a tick  $(\checkmark)$  on the tile below that has the same design as Stefan's tile.



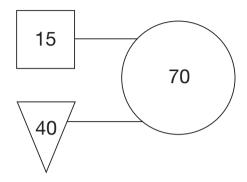




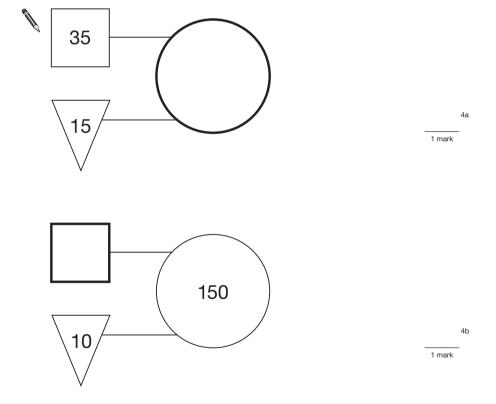




'double the number in the square and add the number in the triangle to make the number in the circle'.



Use the same rule to write in the missing numbers below.



	2007	2008
Spain	18	26
England	38	17
Scotland	21	13
Wales	19	28
USA	4	16

Look at the table.

How many **more** people went to Wales than to Scotland in 2008?

		5
	1 mark	

Which country had the **greatest increase** in visitors from 2007 to 2008?

	5
	4







One battery weighs the same as **60** paperclips.

One pencil sharpener weighs the same as 20 paperclips.

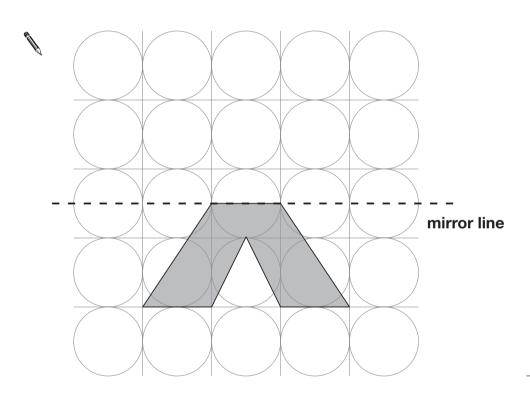
How many pencil sharpeners weigh the same as one battery?



How many paperclips weigh the same as **2** batteries and **4** pencil sharpeners together?



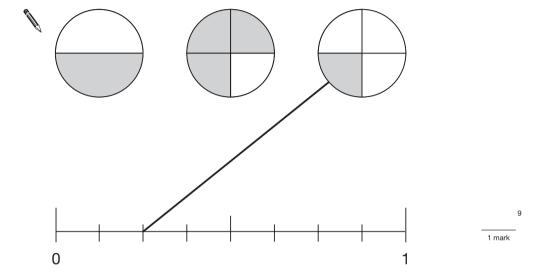
Draw the reflection of the shaded shape in the mirror line.



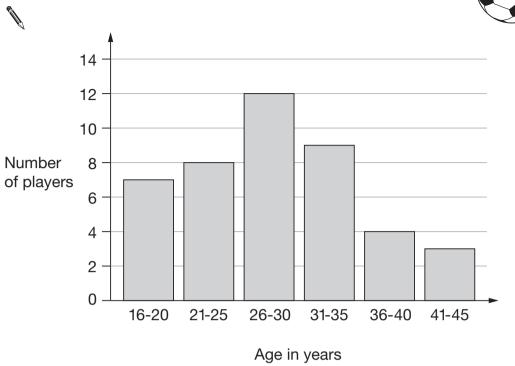
. .

# Match each fraction to the correct place on the number line.

One has been done for you.







## How many players are aged 30 or younger?



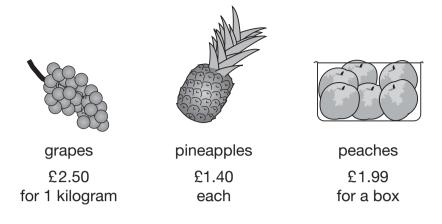
A player aged 36 and a player aged 39 join the club.

Add this information to the graph above.

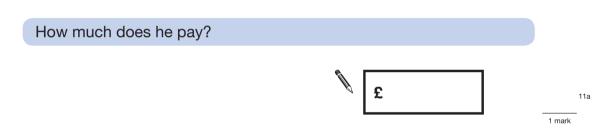
1 mark

10b



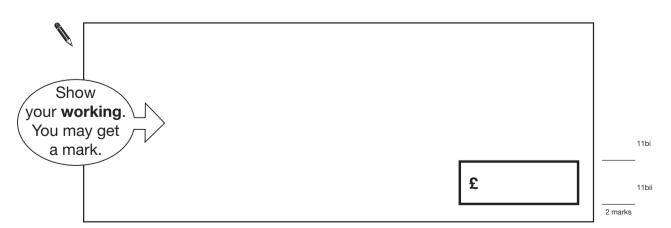


Amir buys 2 pineapples and a box of peaches.

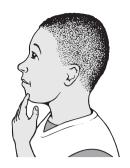


Lara buys half a kilogram of grapes and one pineapple.

#### How much change does she get from £5?



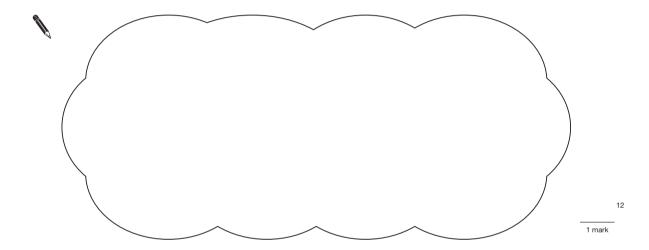
'All numbers that end in a 4 are multiples of 4'.



Is he correct?
Circle **Yes** or **No**.

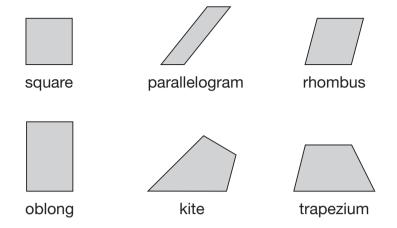


# Explain how you know.





Here are six quadrilaterals with their mathematical names.



Lara chooses one of the quadrilaterals.

She says,

'It has two acute angles.

All four sides are the same length'.

#### Which quadrilateral did Lara choose?



Stefan chooses one of the quadrilaterals.

He says,

'It has more than one obtuse angle. It has no parallel sides'.

Which quadrilateral did Stefan choose?



13b



0.2

0.25

0.4

0.45

0.6

0.75

1 mark

15 Each of these cards has two numbers on it.



4



7



7



5



2



6

Stefan chooses one card without looking.

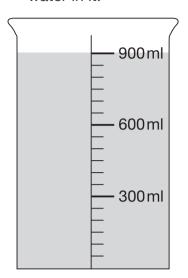
He adds the two numbers together.

What is the **most likely** total of the numbers on his card?

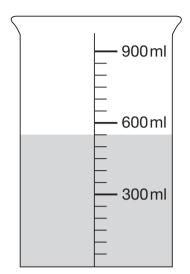


15

This container has 900 millilitres of water in it.



Lara pours out some water so that it looks like this.



How much water has Lara poured out?

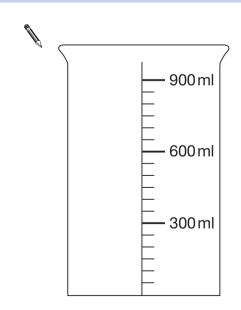


1 mark

16a

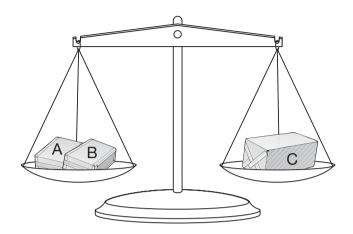
Then she pours out another 150ml of water.

Draw an arrow (→) to show the new level of the water.



16b

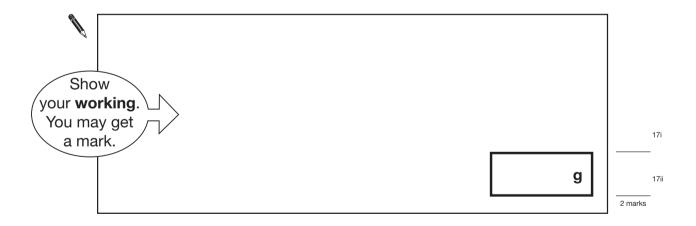
Parcels A and B together weigh the same as parcel C.



The three parcels weigh 800 grams altogether.

Parcel A weighs 250g.

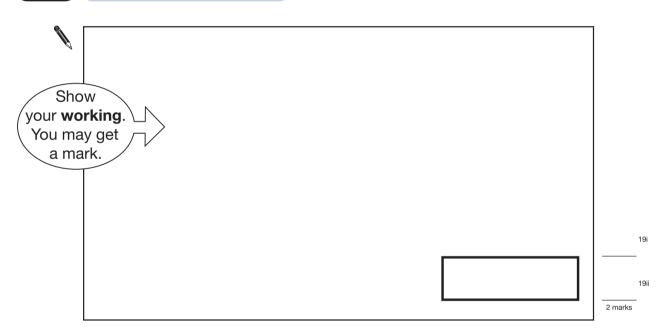
## How much does parcel B weigh?





0 00 01/10

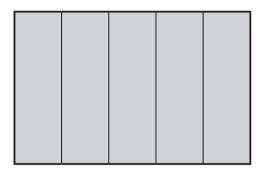
# 19 Calculate **602** × **57**



They are 7 centimetres long and 2 centimetres wide.

	7cm	
2cm		Not actual size

She uses five of her rectangles to make the large rectangle below.



What is the **perimeter** of the large rectangle?

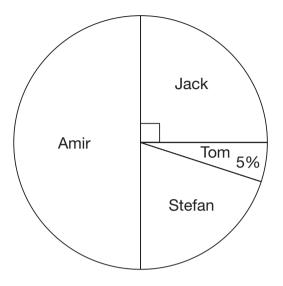


What is the area of the large rectangle?



40 children predicted who would win the boys' race at sports day.

This pie chart shows their predictions.



What percentage of the children predicted that Stefan would win?



1 mark

21a

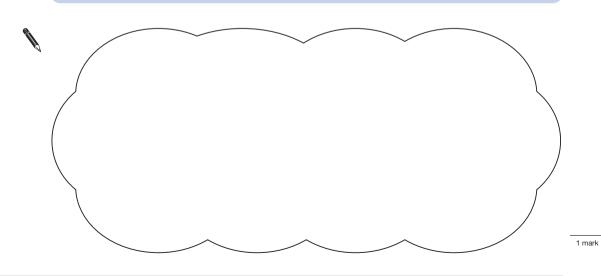
21b

10 children predicted the winner of the race correctly.

Who won the race?



Explain how you know.



22

Two of the fractions below are equivalent.

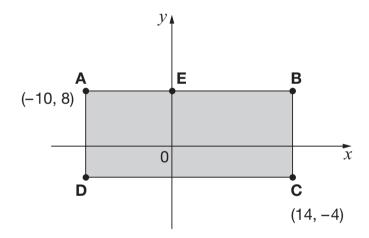
Circle them.



23

**ABCD** is a rectangle drawn on coordinate axes.

The sides of the rectangle are parallel to the axes.

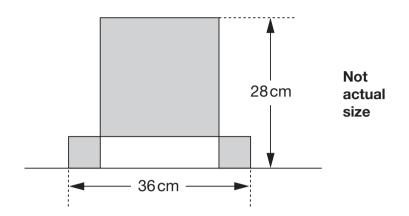


What are the coordinates of **D** and **E**?

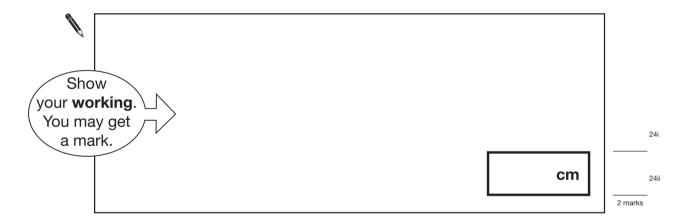




The design measures 36 centimetres by 28 centimetres.



### Calculate the length of a side of the large square.



End of test

23