Ma

KEY STAGE

2

3-5

# Mathematics test

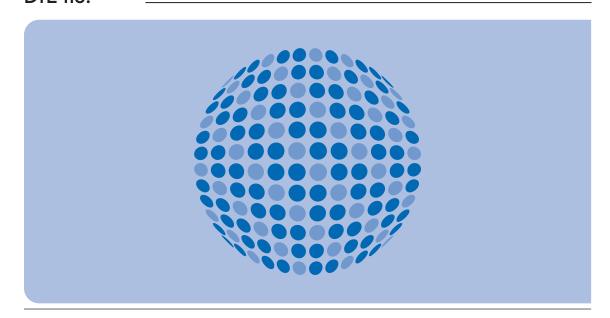
# Test A

# Calculator not allowed

Last name

School

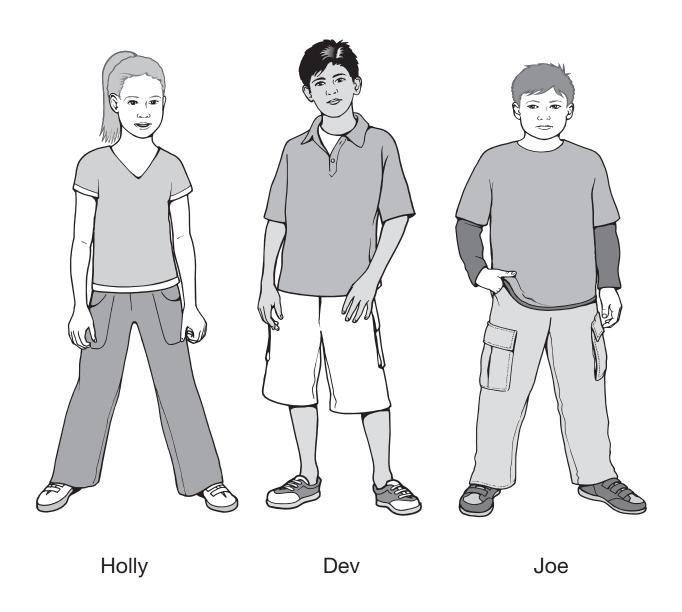
DfE no.



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.

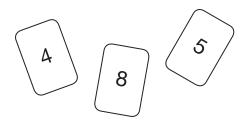
If you need to do working out, you can use any space on a page.

#### Some questions have an answer box like this:



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

Holly made a number using these digit cards.



The **hundreds** digit is greater than 4

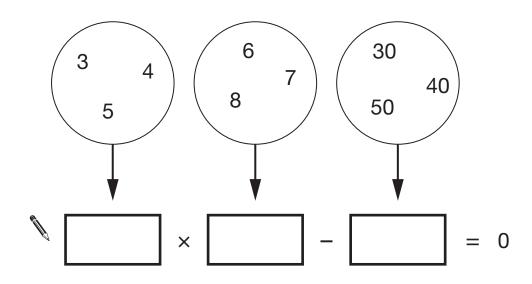
Holly's number is **odd**.

What number did Holly make?



1 mark

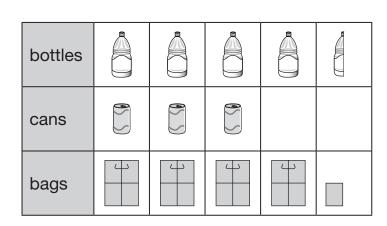
Write one number from each circle to make this calculation correct.

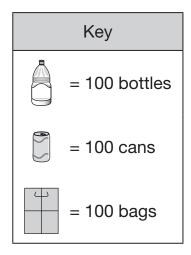


2

1 mark

This chart shows some of the litter they have collected so far.





How many bottles have Class 6 collected?



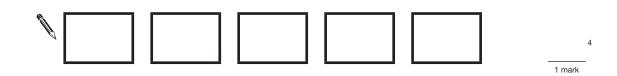
How many **more** bags than cans have they collected?



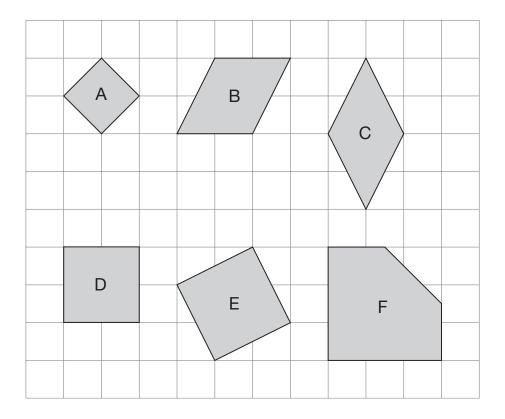
Dev has five coins.

He has £1.60 altogether.

Write what the five coins could be.



Here are six shapes on a square grid.



Write the letters of **all** the shapes that are squares.



He gives 18 of the chocolates to his friends.

How many chocolates are left in the box?



Holly has a box of mints.



She has 10 friends.

She gives them 5 mints each.

She has 13 mints left.

How many mints were in the box at the start?





Holly takes half an hour to walk from home to school.

She arrives at school at 8:25 am.

#### At what time did she leave home?





Dev leaves school at half past three.

He arrives home at ten past four.

How many minutes did it take him to get home?



## Use each number **once** to complete the sums.

One sum has been done for you.

\_\_\_\_

8i

8ii

2 marks

Here is part of a number sequence.

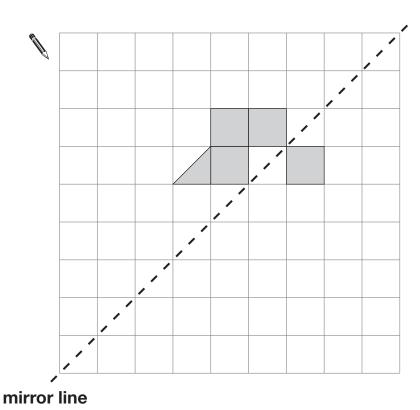
The numbers in the sequence increase by 25 each time.

. . .

Circle all of the numbers below that will appear in the sequence.

1 mark

Shade **two** squares and **one** triangle to make this design symmetrical about the mirror line.



1 mark



9 × 3



8 × 4

9 - 3



8 - 4

9 + 3



8 + 4

9 ÷ 3

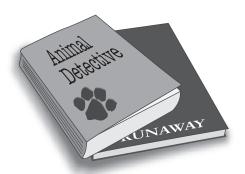


8 ÷ 4

11i

11ii

2 marks

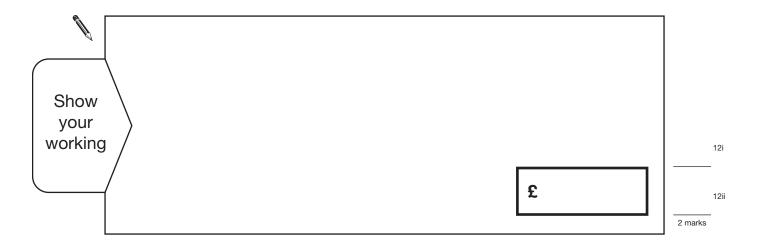


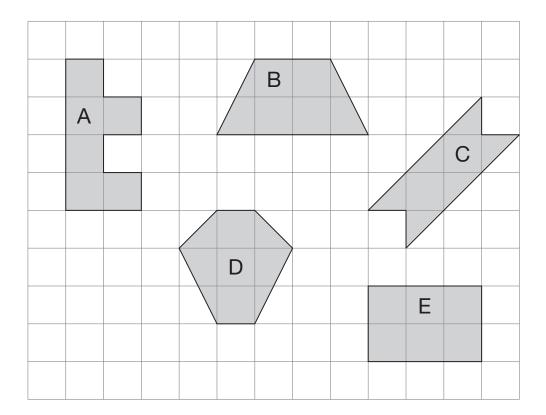
Dev and Joe each buy a book.

Dev pays with a £5 note and gets £1.05 change.

Joe's book costs £7

#### How much more does Joe's book cost than Dev's book?





# What is the **perimeter** of shape A?

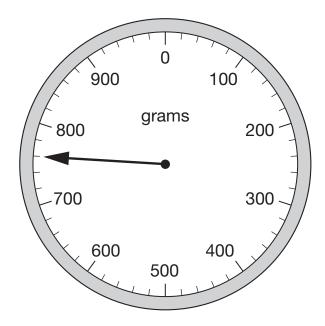


Write the letter of the shape that has the **smallest area**.



Joe places some apples on a weighing scale.

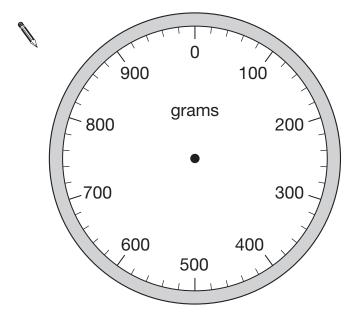
The pointer shows the mass of the apples.



He takes away one apple.

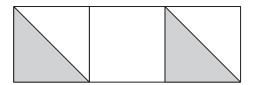
The mass goes down by 120 grams.

Draw the pointer in its new position on the scale below.



14

1 mark



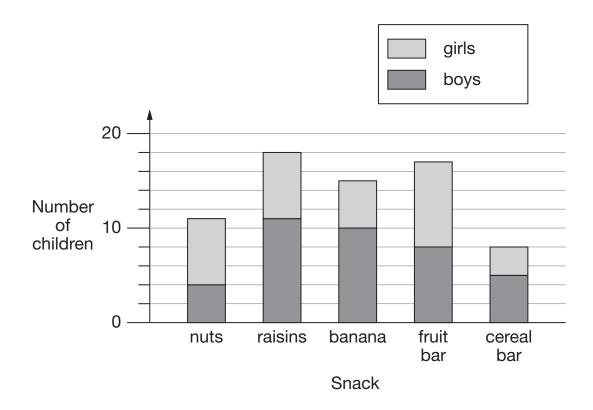
Holly says,

# 'One-third of this shape is shaded'.

Is Holly correct?
Circle Yes or No.

Explain how you know.

This chart shows the favourite snacks of some boys and girls.



How many snacks were chosen by more girls than boys?



How many more boys than girls chose raisins?



Which snack was chosen by twice as many boys as girls?



		17
	1 mark	

Dev has three discs.

Each disc has a 7 on one side and an 8 on the other side.



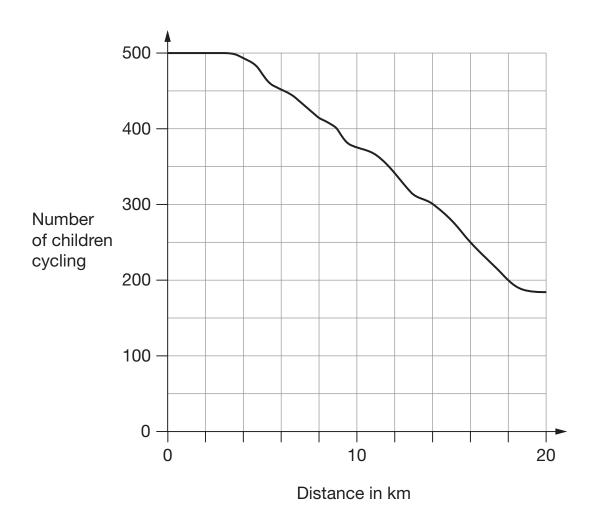
He spins all the discs and adds the three scores together.

How many different totals can he get using the three discs?



500 children started a 20 kilometre sponsored cycle ride.

This graph shows how far they cycled.



At what distance were exactly half of the children still cycling?



Estimate how many children completed the 20 kilometre cycle ride.



0.47

10

100

1000

4.07

Use **four** of the cards to complete these calculations.

X

40.7

1 mark

21 Calculate **544 ÷ 32** 

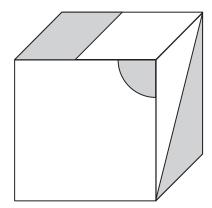
Show your working

21i

21ii

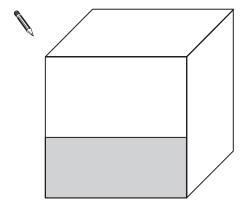
2 marks

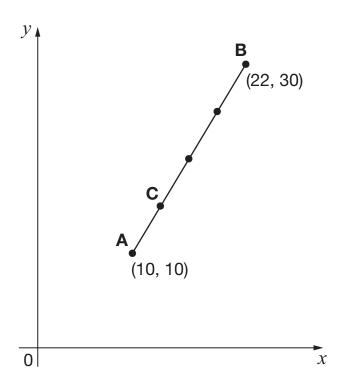




The cube is turned to look like this.

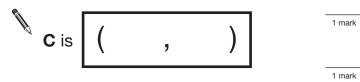
Draw and shade the missing shapes.





The dots on the line are equally spaced.

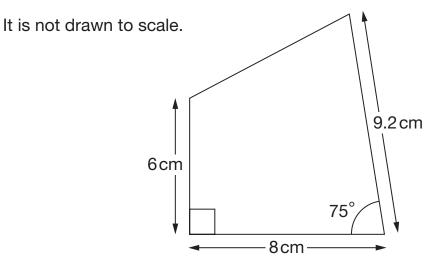
## What are the coordinates of C?



23a

23b

Here is a sketch of a quadrilateral.

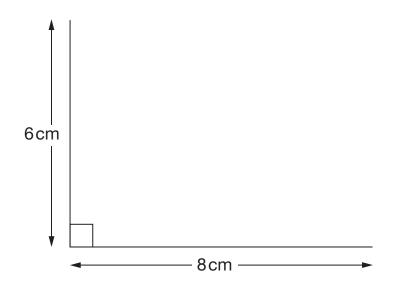


## Draw the full-size quadrilateral accurately below.

Use a protractor (angle measurer) and a ruler.

Two of the lines have been drawn for you.





24i \_\_\_\_\_\_\_24ii

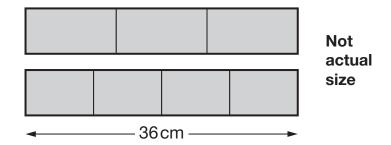
2 marks

Joe has two strips of card.

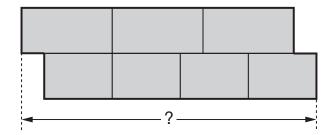
Each strip is 36 centimetres long.

One strip is divided into three equal parts.

The other strip is divided into four equal parts.



Joe uses the two strips to make this shape.



## What is the total length of Joe's shape?

