Ma

KEY STAGE

Mathematics test

3-5

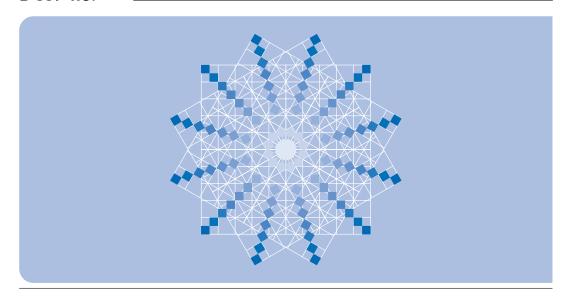
# Test B

# Calculator allowed

Last name

School

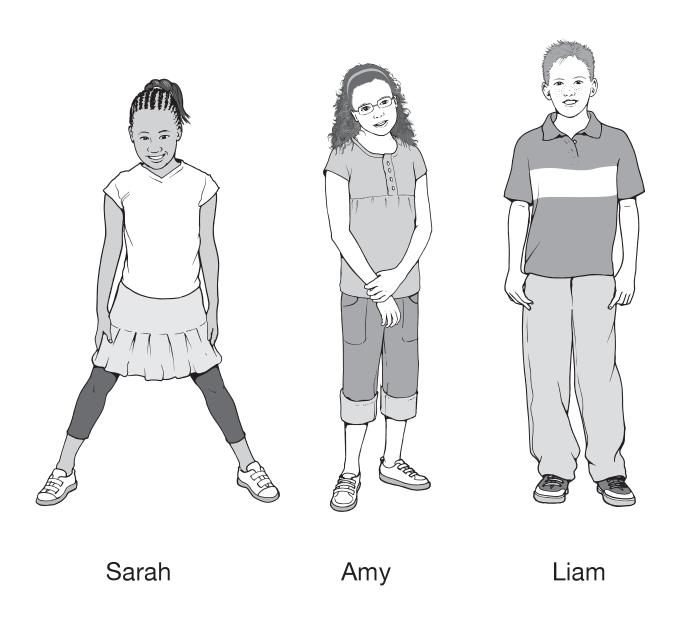
DCSF no.



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** 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.

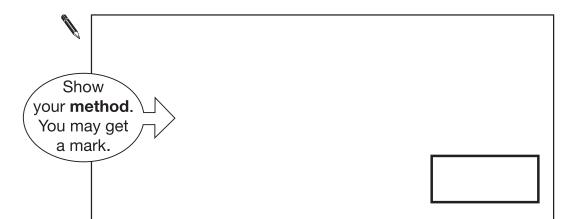
If you finish before the end, go back and check your work.

#### 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:

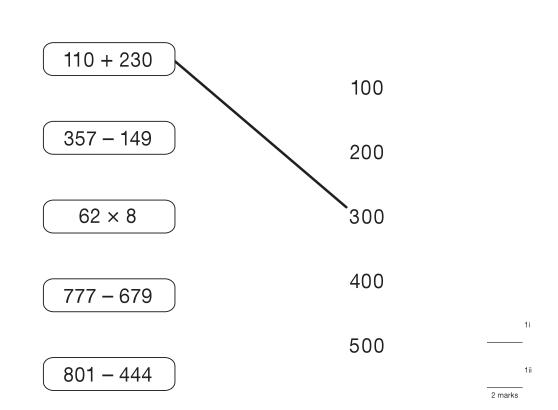


For these questions you may get a mark for showing your method.

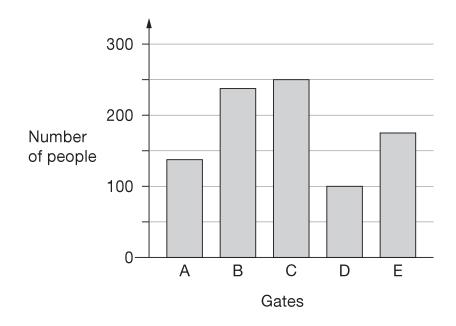
Join each of these calculations to the number that is **nearest** to the correct answer.

One has been done for you.





This bar chart shows how many people went through each gate.



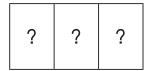
How many **more** people went through gate C than gate D?



How many gates had **fewer than 150** people go through?



## What's my number?



It is a three-digit number.

All the digits are odd.

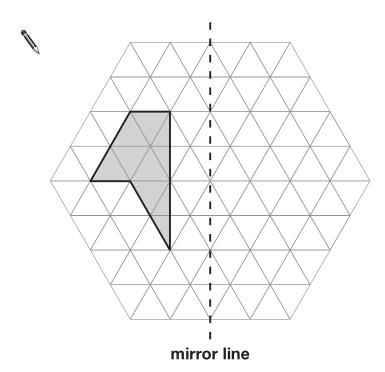
The digits add up to 7

What could my number be?



1 mark

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



1 mark

	Pet Clinic		
Monday	10am to 4:30pm		
Tuesday	10am to 4:30pm		
Wednesday	Closed all day		
Thursday	10:30am to 2:30pm		
Friday	1pm to 6:30pm		
Saturday	10am to 5:30pm		
Sunday	Closed all day		

How many hours is the clinic open on Thursday?



On which day is the clinic open for the longest time?

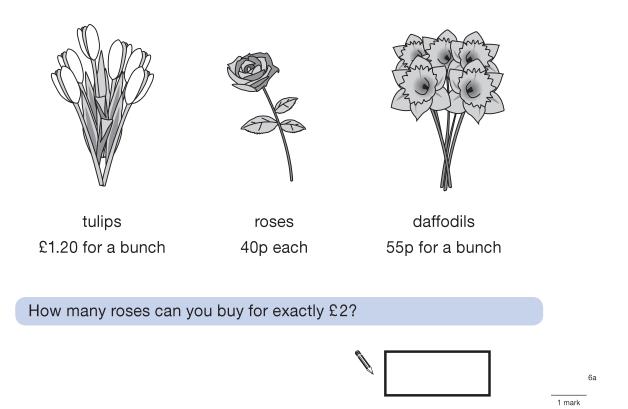


Liam takes his dog to the clinic on Saturday.

He arrives at 9:25 am.

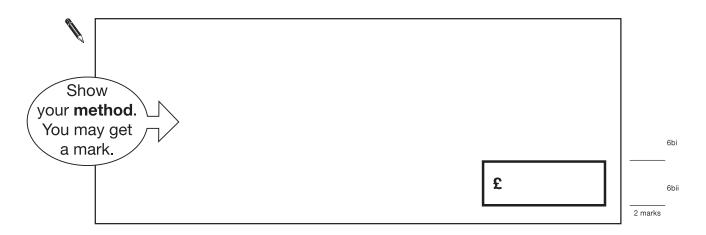
How many minutes is it before the clinic opens?





Amy buys one bunch of tulips and three bunches of daffodils.

How much does she pay altogether?



Sarah has a packet of balloons.

The contents of the packet are

5 red balloons

5 blue balloons

10 yellow balloons

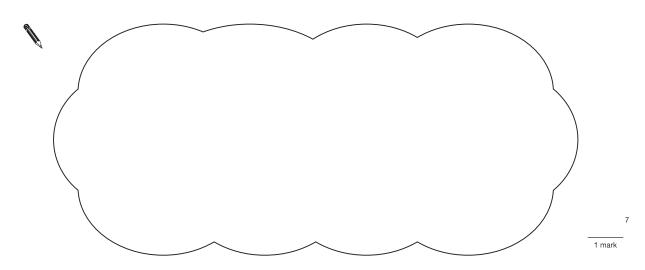
Sarah says,



'One-quarter of the balloons are red'.

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

Explain how you know.





Use all  $\mathbf{six}$  digit cards to make three multiples of 3

8 1 mark			
	multiple of 3	multiple of 3	multiple of 3

This table shows the four most popular names for baby girls born each year from 2004 to 2008.

	2004	2005	2006	2007	2008
1st	Emily	Jessica	Olivia	Grace	Olivia
2nd	Ellie	Emily	Grace	Ruby	Ruby
3rd	Jessica	Sophie	Jessica	Olivia	Grace
4th	Sophie	Olivia	Ruby	Emily	Emily

In how many years was Olivia in the **top three** most popular names?



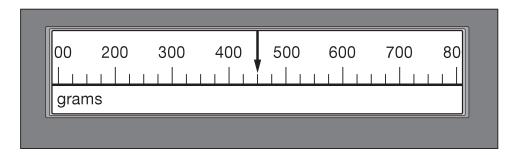
Write **all** the years when Emily was a more popular name than Jessica.



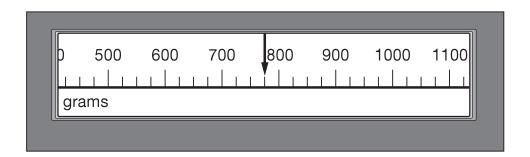
10

This scale shows the mass of Amy's kitten when it was one month old.





This scale shows the mass of the kitten when it was two months old.

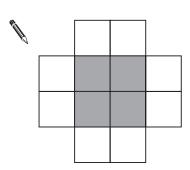


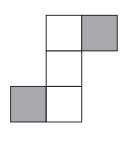
What is the increase in mass?

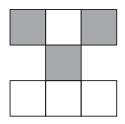


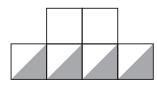
Look at each diagram.

Put a tick ( $\checkmark$ ) if exactly  $\frac{1}{3}$  of it is shaded. Put a cross ( $\mathbf{x}$ ) if it is not.

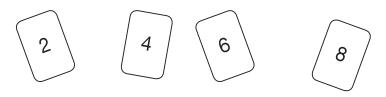




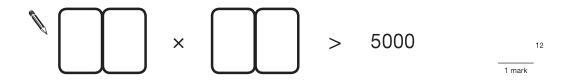








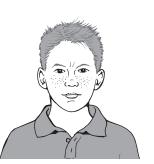
Use all four digit cards to make this number sentence correct.



13 Liam thinks of a number.

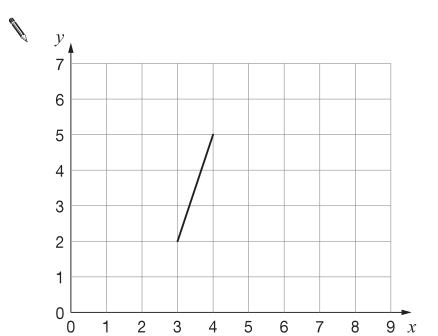
He divides it by 9 and then adds 25 to the result.

His answer is 36



#### What number did Liam start with?





The square has a vertex at (6, 1).

Draw the other three sides of the square on the grid.

Use a ruler.

14 1 mark 15

A builder needs 7600 bricks to build a wall.

There are 500 bricks in a load.



How many loads must the builder buy?



15a 1 mark

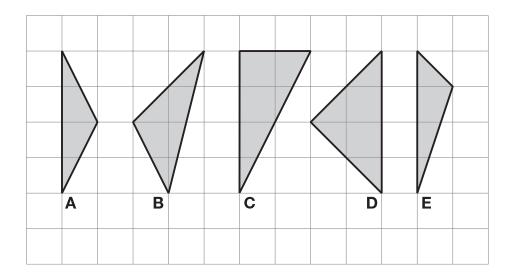
The price of one load of 500 bricks is £230

What is the cost in pence of one brick?



15b

1 mark



Write the letter of each triangle that has a **right angle**.

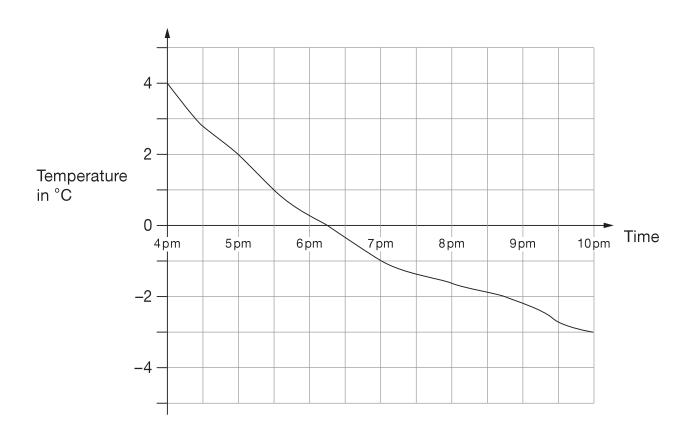


Write the letter of each triangle that has two equal sides.

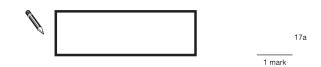
			16
	_	1 mark	

17

This graph shows the outside temperature from 4pm to 10pm on a day in winter.



At what time was the temperature -2°C?



How many degrees did the temperature drop from 5 pm to 7 pm?

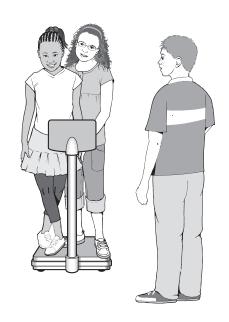


Here are the measurements:

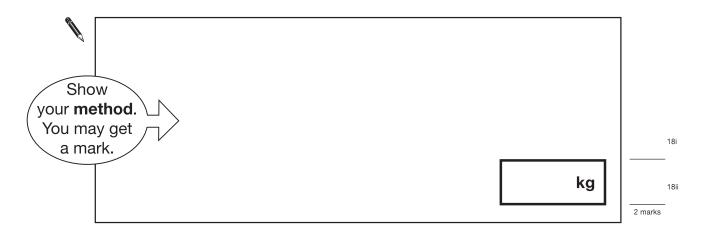
Sarah and Amy 70kg

Sarah and Liam 80kg

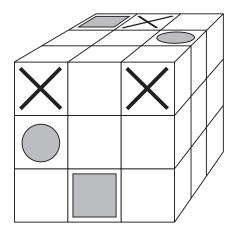
Liam and Amy 80kg



### How much does Liam weigh?

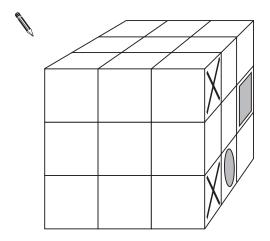


The block has a pattern on two faces.



The block is turned to the position below.

Draw the missing parts of the pattern on it.





21 Here are four pairs of measurements.

For each pair, put a ring around the **larger** measurement.

One has been done for you.

4 centimetres 4 inches

10 kilometres 10 miles

2 litres 2 pints

5 grams 5 pounds

2

1 mark

One has been done for you.

	less than 1000	equal to 1000	more than 1000
5 × 15 × 25			<b>√</b>
16 × (80.3 – 17.8)			
3888 ÷ (4.32 – 0.57)			
$(32 - 5.7) \times (32 + 5.7)$			

22

22ii

2 marks

k stands for a number.

Complete the number sentences below.

One has been done for you.

W.

5 more than k is

k + 5

2 less than k is

\_\_\_\_

3 more than twice k is

23i

6 more than half of k is

2 marks

23ii

Each bag contains blue marbles and red marbles only.



3 blue marbles and 3 red marbles



6 blue marbles and 9 red marbles

Liam chooses a marble from each bag without looking.

From which bag is he more likely to choose a **blue** marble?

Circle **A** or **B**.



Explain how you know.

