Ma

KEY STAGE 2

3-5

50**0**0**0**0

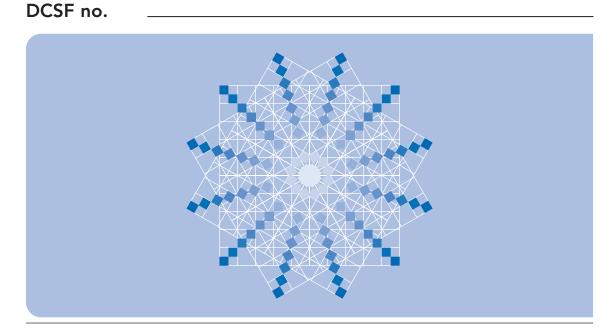
Mathematics test

Test B

Calculator allowed

Last name

School

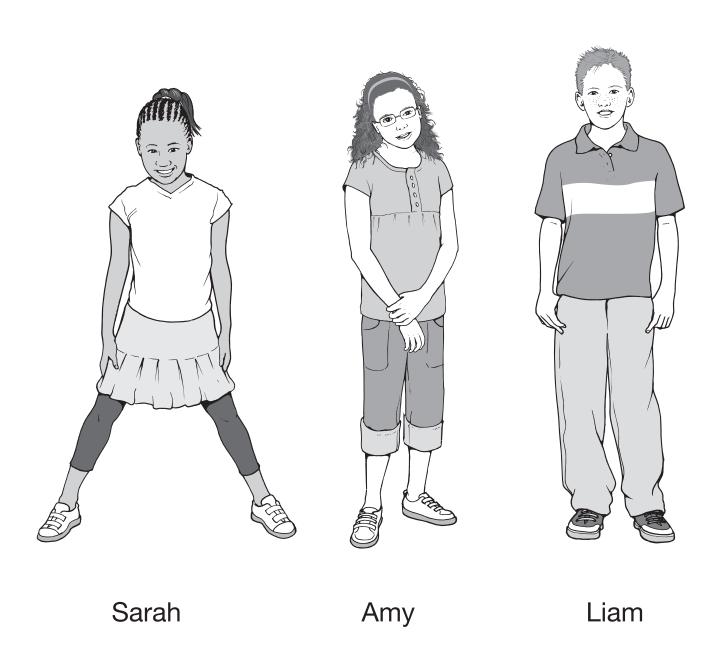


For marker's use only

| Page | Marks |
|-------|-------|
| 5 | |
| 7 | |
| 9 | |
| 11 | |
| 13 | |
| 15 | |
| 17 | |
| 19 | |
| 21 | |
| 23 | |
| TOTAL | |
| | |

Sourced from www.11pluscentre.co.uk

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.

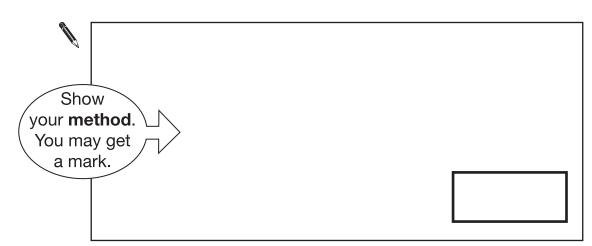
If you finish before the end, go back and check your work.

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.

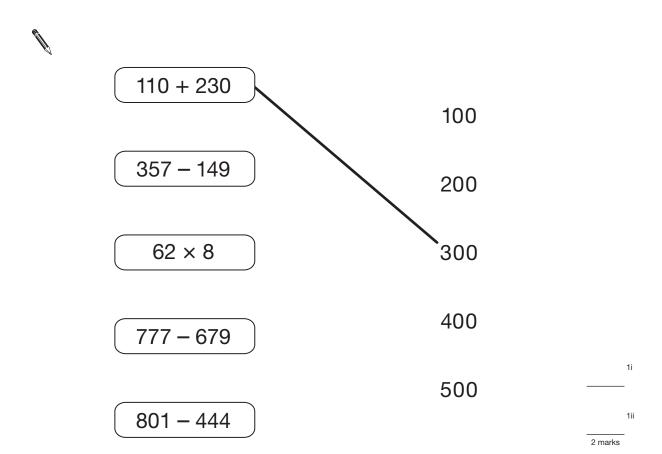
Some questions have an answer box like this:



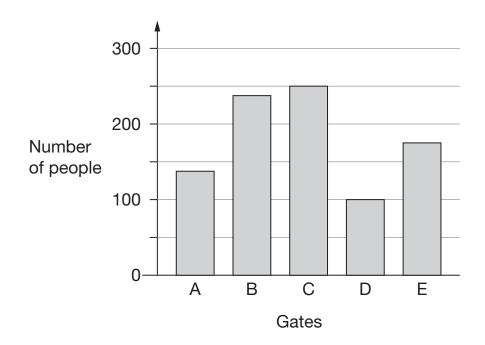
For these questions you may get a mark for showing your method.

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.



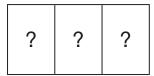
How many more people went through gate C than gate D?



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.

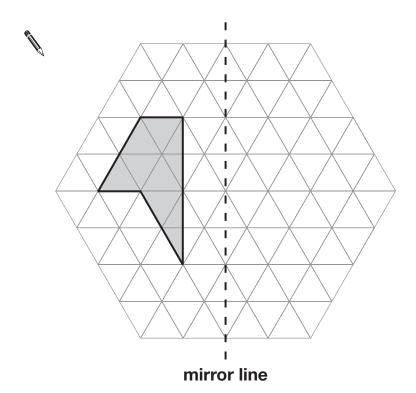
The digits add up to 7

What could my number be?



1 mark

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



1 mark

This table shows the opening times of a pet clinic.

| | Pet Clinic | La Car | |
|-----------|----------------|---------|----|
| Monday | 10 am | to 4:30 | om |
| Tuesday | 10 am | to 4:30 | om |
| Wednesday | Closed all day | | |
| Thursday | 10:30 am | to 2:30 | om |
| Friday | 1pm | to 6:30 | mc |
| Saturday | 10 am | to 5:30 | om |
| Sunday | Closed all day | | |

How many hours is the clinic open on Thursday?



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

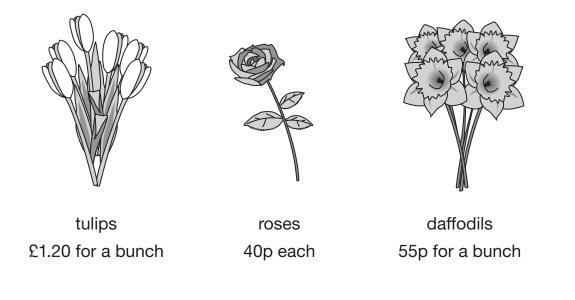


Liam takes his dog to the clinic on Saturday.

He arrives at 9:25 am.

How many minutes is it before the clinic opens?



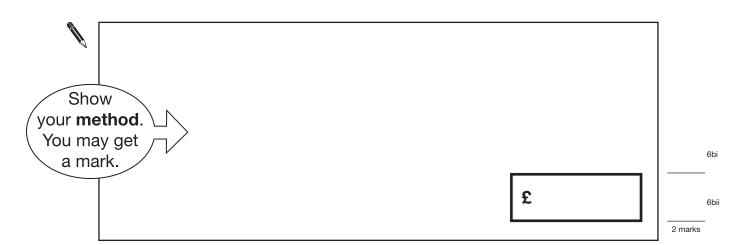


How many roses can you buy for exactly £2?



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

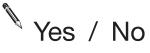
10 yellow balloons

Sarah says,

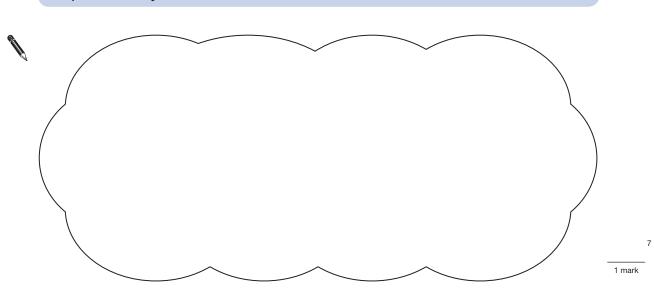


'One-quarter of the balloons are red'.

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



Explain how you know.



9 Total out of 4

2

3

4

5

6

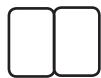
7

Use all six digit cards to make three multiples of 3

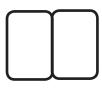




multiple of 3



multiple of 3



multiple of 3

1 mark

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 |

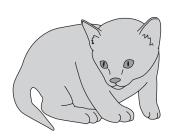
In how many years was Olivia in the top three most popular names?

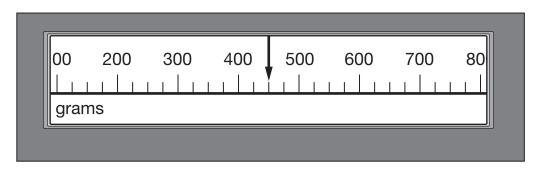


Write **all** the years when Emily was a more popular name than Jessica.

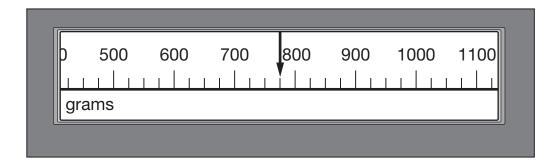


This scale shows the mass of Amy's kitten when it was one month old.





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

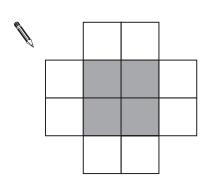


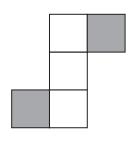
What is the increase in mass?

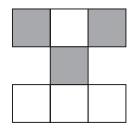


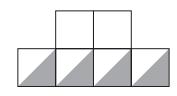
Look at each diagram.

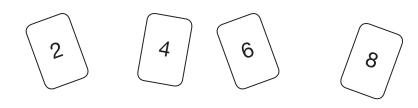
Put a tick (\checkmark) if exactly $\frac{1}{3}$ of it is shaded. Put a cross (\mathbf{x}) if it is not.











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



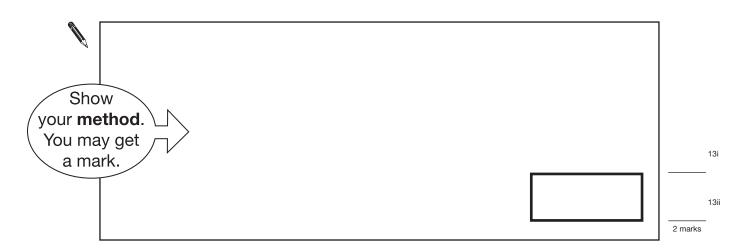
13 Liam thinks of a number.

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

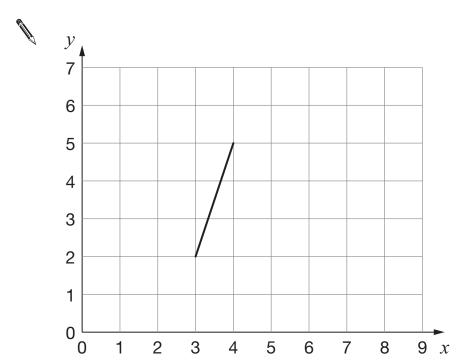
His answer is 36



What number did Liam start with?



Here is one side of a square drawn on a coordinate grid.



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

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

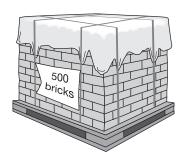
Use a ruler.

15 Total out of 4

15

A builder needs 7600 bricks to build a wall.

There are 500 bricks in a load.



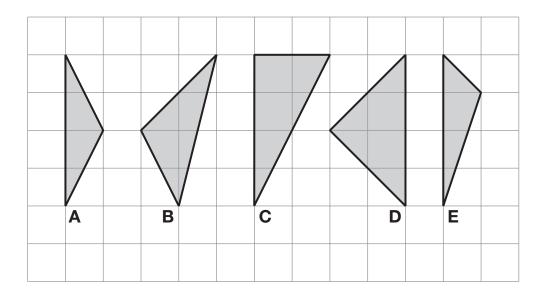
How many loads must the builder buy?



The price of one load of 500 bricks is £230

What is the cost in pence of one brick?





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

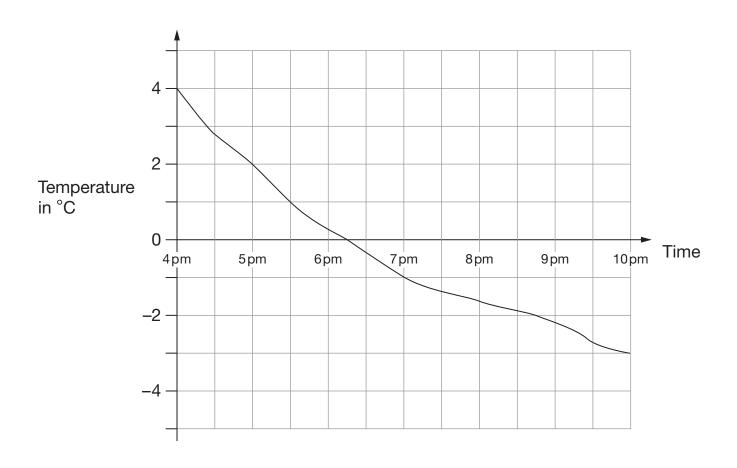


Write the letter of each triangle that has two equal sides.

| | 1 | 6 |
|--|--------|---|
| | 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 5pm to 7pm?

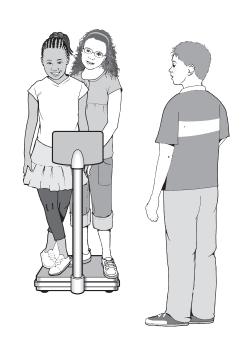


Here are the measurements:

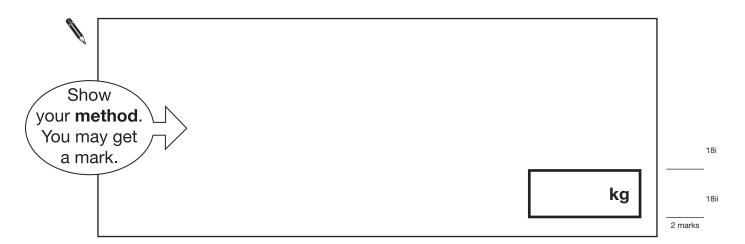
Sarah and Amy **70kg**

Sarah and Liam 80 kg

Liam and Amy 80kg

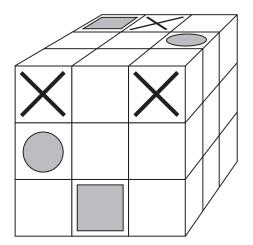


How much does Liam weigh?



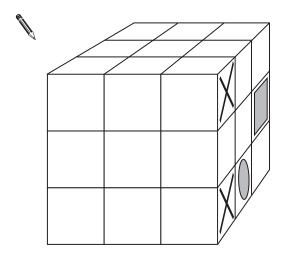
19 Total out of 4

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.



| | 2 | 0 |
|--|--------|---|
| | 1 mark | |

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

1 mark

One has been done for you.

| B |
|---|

| , | | less than 1000 | equal to 1000 | more than 1000 |
|---|-------------------------|----------------------|---------------------|----------------------|
| | 5 × 15 × 25 | | | ✓ |
| | 16 × (80.3 – 17.8) | | | |
| | 3888 ÷ (4.32 – 0.57) | | | |
| | (32 – 5.7) × (32 + 5.7) | | | |

22i

22ii

2 marks

23

k stands for a number.

Complete the number sentences below.

One has been done for you.

5 more than k is

$$k + 5$$



2 less than k is

3 more than twice k is

23i

23ii

6 more than half of k is

2 marks

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**.

A / B

Explain how you know.

