

MATHEMATICS

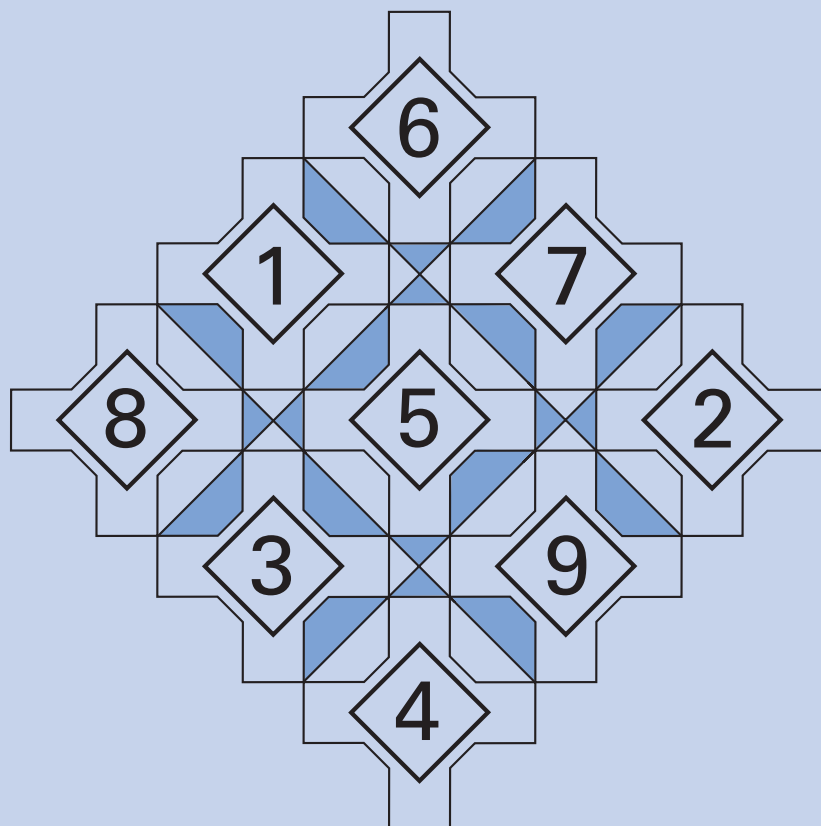
KEY STAGE 2 2000

TEST A

LEVELS
3-5

CALCULATOR NOT ALLOWED

PAGE	MARKS
2	
4	
6	
8	
10	
12	
14	
16	
TOTAL	



First Name

Last Name

School

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 look like this:

The diagram illustrates a question layout. On the left, there is a pencil icon. Below it is a speech bubble containing the text: "Show your **working**. You may get a mark." An arrow points from the speech bubble to a large, empty rectangular box intended for working out. To the right of this large box is a smaller, empty rectangular box intended for the final answer.

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

1

Each card on the left matches one on the right.

Draw lines to match the cards which are **equal** in value.

One has been done for you.



3×6

2×25

10×5

9×2

5×8

50×2

9×10

3×30

5×20

10×4

1
2 marks

2

Write in the missing numbers.



$$150 + \boxed{} = 500$$

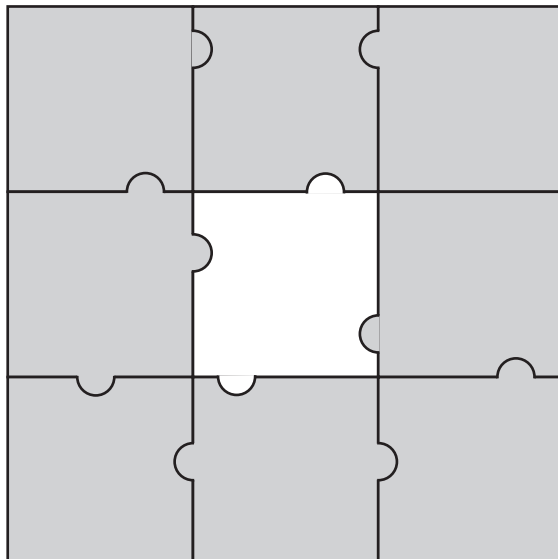
$$172 - \boxed{} = 60$$

2a
1 mark

2b
1 mark

3

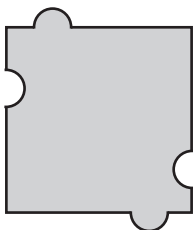
Here is a jigsaw with one piece **missing**.



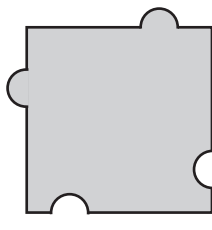
Which **one** of the pieces below fits the hole in the middle?



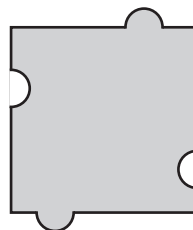
3
1 mark



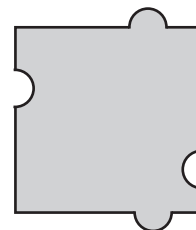
A



B



C



D

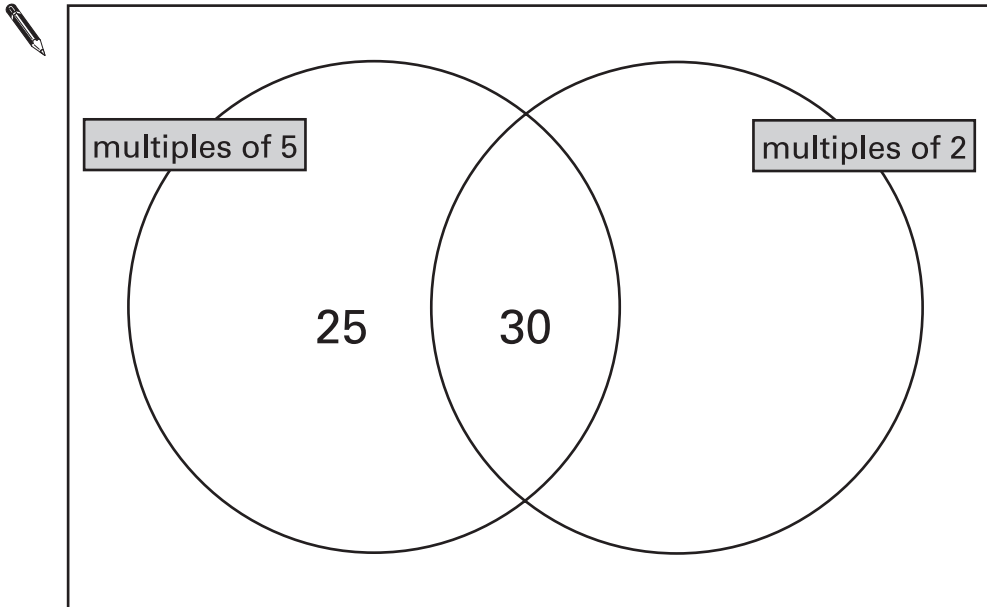
4

Write **each** of these numbers in its correct place on the sorting diagram.

40

8

15



4
2 marks

5

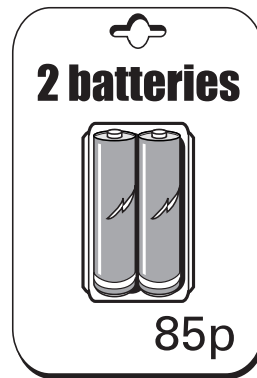
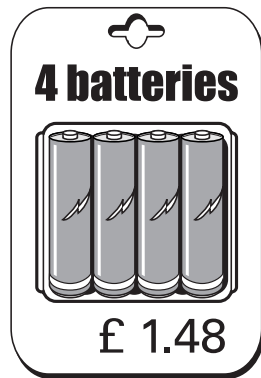
Calculate $369 + 251$

A pencil icon and a rectangular box for the answer.

5
1 mark

6

A shop sells batteries in **packs of four** and **packs of two**.



Simon and Nick want two batteries each.

They buy a **pack of four** and share the cost equally.

How much does each pay?



Show your **working**.
You may get a mark.

6a
2 marks

Mary buys **2 packs of two** batteries.

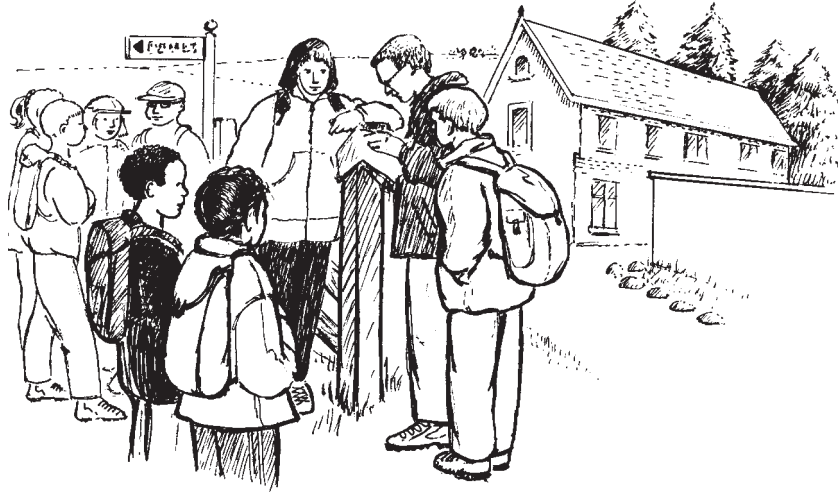
Hamid buys **1 pack of four**.

How much **more** does Mary pay than Hamid?



Show your **working**.
You may get a mark.

6b
2 marks



This table shows the numbers of children who went walking, sailing or climbing at an outdoor centre.

	May	June	July
walking	25	80	75
sailing	15	42	50
climbing	18	27	23

How many children went **sailing** in **May, June and July** altogether?



7a

1 mark

How many **more** children went **walking** in **June** than **climbing** in **June**?

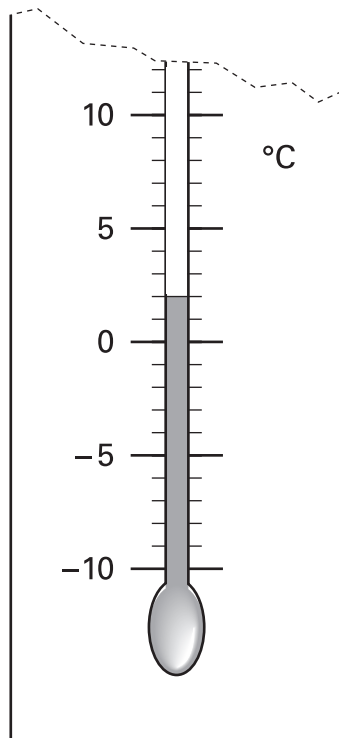


7b

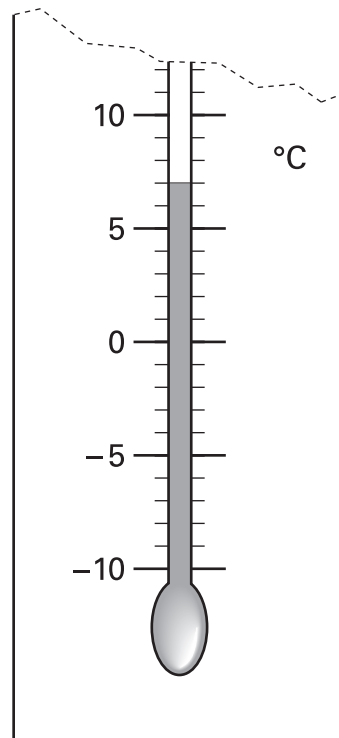
1 mark

8

These are the temperatures in York and Rome on a day in winter.



York



Rome

How many degrees **colder** is it in York than in Rome?


°C

8a

1 mark

On another day, the temperature in York is **4°C**

Rome is **7 degrees colder** than York.

What is the temperature in **Rome**?

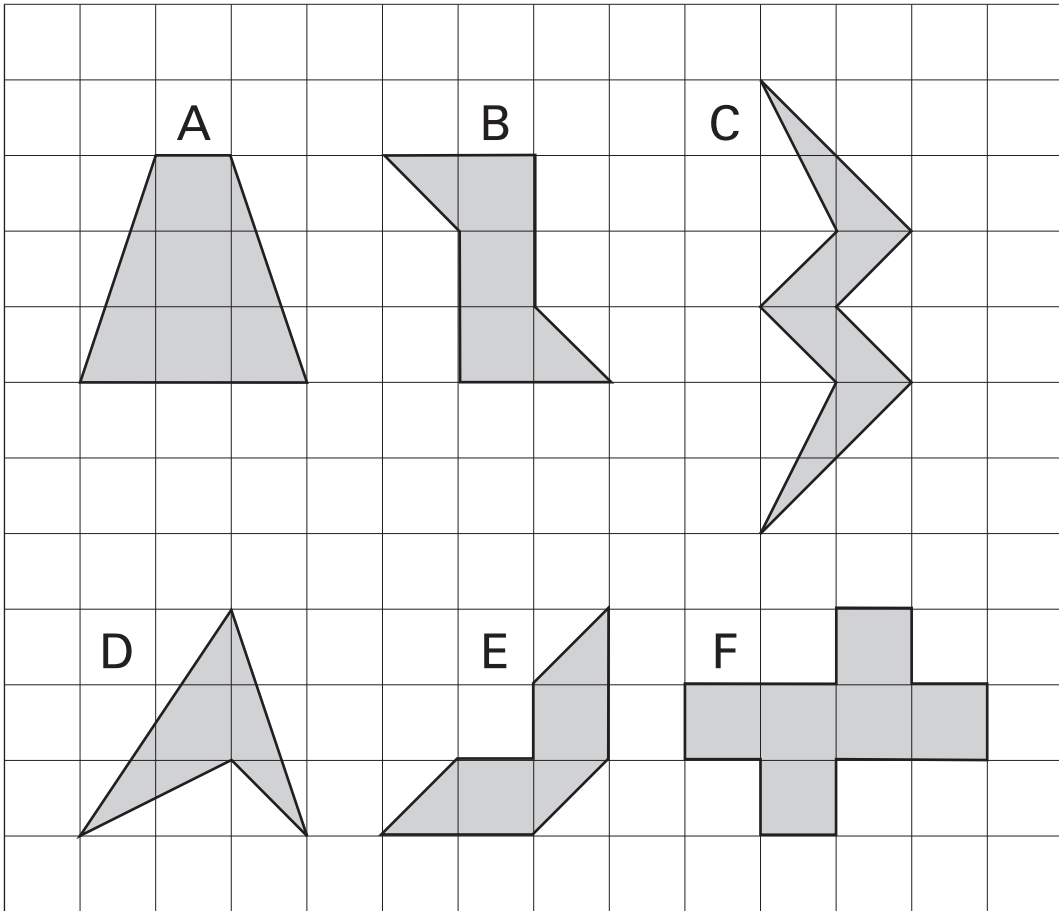

°C

8b

1 mark

9

Here are some shaded shapes on a grid.



Which **three** shapes have **reflective symmetry**?

You may use a mirror or tracing paper.






.....














9
2 marks



A camping shop sells **tents**, **sleeping bags** and **backpacks**.
This chart shows how many of each they sold in June.

Items sold in June

 is 4 tents
  is 4 sleeping bags
  is 4 backpacks

tents	 
sleeping bags	   
backpacks	      

The shop had **20** sleeping bags at the **beginning of June**.

How many of these sleeping bags did the shop have left at the **end of June**?



10a
1 mark

In **July**, the shop sold **three times as many tents** as in June.

How many tents did the shop sell in **July**?



10b
1 mark

11

Circle **two** numbers which **add** to make **0.12**



0.1

0.5

0.05

0.7

0.07

0.2

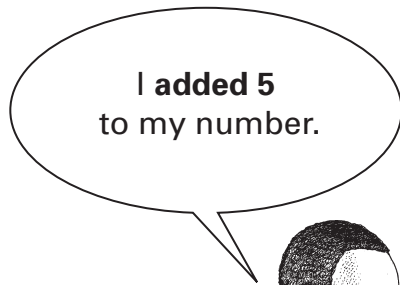


11

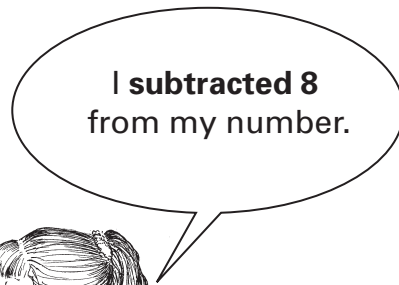
1 mark

12

Leon and Sara each started with **different** numbers.



Leon



Sara

Leon and Sara both get the **same** answer.

What numbers could they have started with?



Leon

Sara



12

1 mark

13

Calculate $\frac{3}{4}$ of 840

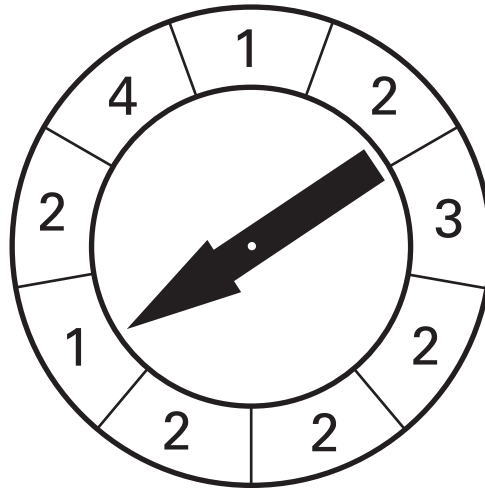


13

1 mark

14

This spinner is divided into **nine** equal sections.



Which **two different numbers** on the spinner are equally likely to come up?



14a

1 mark

Meera says,

'2 has a greater than even chance of coming up'.

Explain why she is correct.



.....

.....

.....

14b

1 mark

15



Peanuts cost **60p** for **100 grams**.

What is the cost of **350 grams** of peanuts?



Show your **working**.
You may get a mark.

15a
2 marks

Raisins cost **80p** for **100 grams**.

Jack pays **£2** for a bag of raisins.

How many **grams of raisins** does he get?



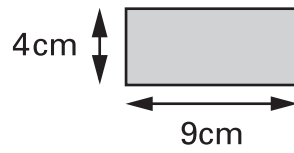
Show your **working**.
You may get a mark.

g

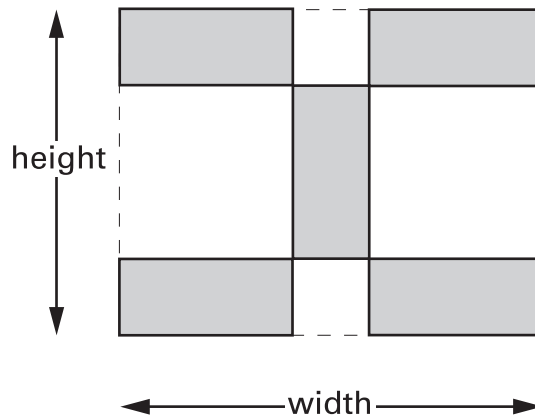
15b
2 marks

16

Kim has some rectangular tiles.
Each one is **4 centimetres** by **9 centimetres**.



She makes a design with them.



Calculate the **width** and **height** of her design.



width =

 cm

height =

 cm

16a

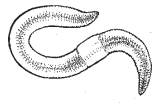
1 mark

16b

1 mark

17

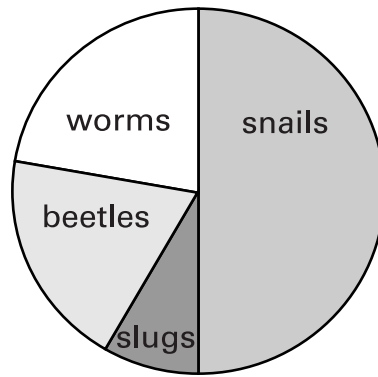
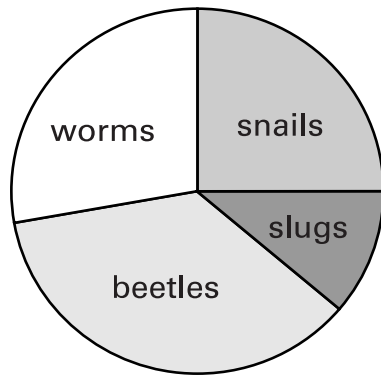
Tony and Gemma looked for snails, worms, slugs and beetles in their gardens.



They each made a pie chart of what they found.

Tony's pie chart

Gemma's pie chart



Total 80

Total 36

Estimate the number of worms that Tony found.



17a

1 mark

Who found more snails?
Circle Tony or Gemma.



Tony / Gemma

Explain how you know.



.....

.....

.....

17b

1 mark

18

Circle two different numbers which **multiply** together to make **1 million**.



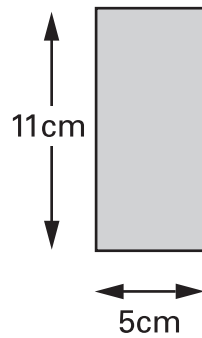
10 100 1000 10000 100000

18

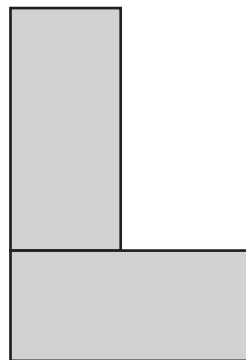
1 mark

19

Liam has two rectangular tiles like this.



He makes this L shape.



What is the **perimeter** of Liam's L shape?



19

1 mark

20

This sequence of numbers **goes up by 40** each time.

40 80 120 160 200 ...

This sequence continues.

Will the number **2140** be in the sequence?
Circle Yes or No.

 Yes / No

Explain how you know.



.....

.....

.....

20
1 mark

21

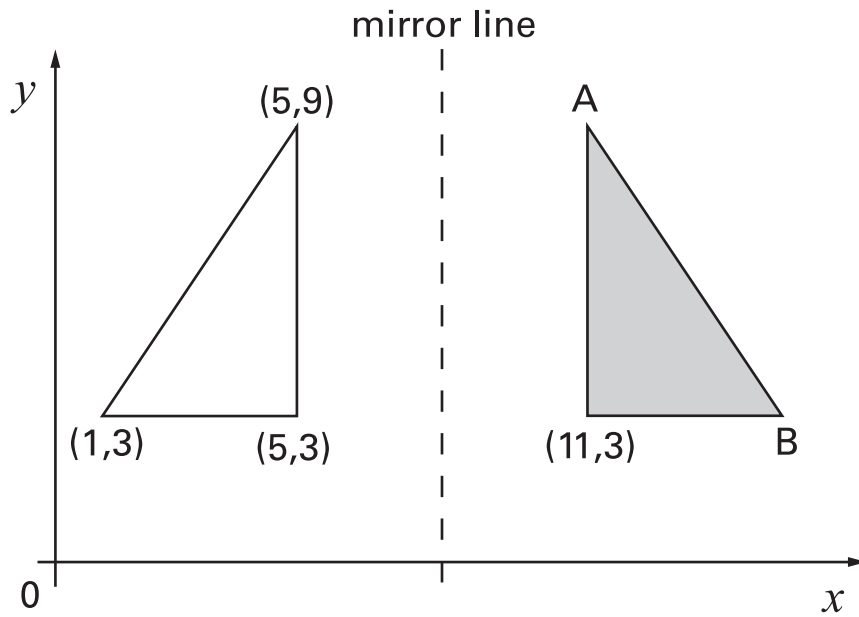
Calculate **8.6 – 3.75**



21
1 mark

22

The shaded triangle is a reflection of the white triangle in the mirror line.



Write the **co-ordinates** of point **A** and point **B**.



A is (,)

B is (,)

22a
1 mark

22b
1 mark

23

Leila knows that

$$65 \times 3 = 195$$

Explain how she can **use this information** to find the answer to this multiplication:

$$165 \times 3$$



.....

.....

.....

23
1 mark

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