

Mathematics

Year 4

Reasoning Test

Equipment allowed: pen, pencil, ruler,
protractor or angle measurer, eraser.

No other equipment allowed.

Name

Date

Total marks

4

[BLANK PAGE]

Please do not write on this page.

Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

You have **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:

Show
your
method

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

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 early, **go back and check your work**.

Marks

The number under each box at the side of the page tells you the maximum number of marks for each question.

1

Write the number that is 100 more than 4,637

1 mark

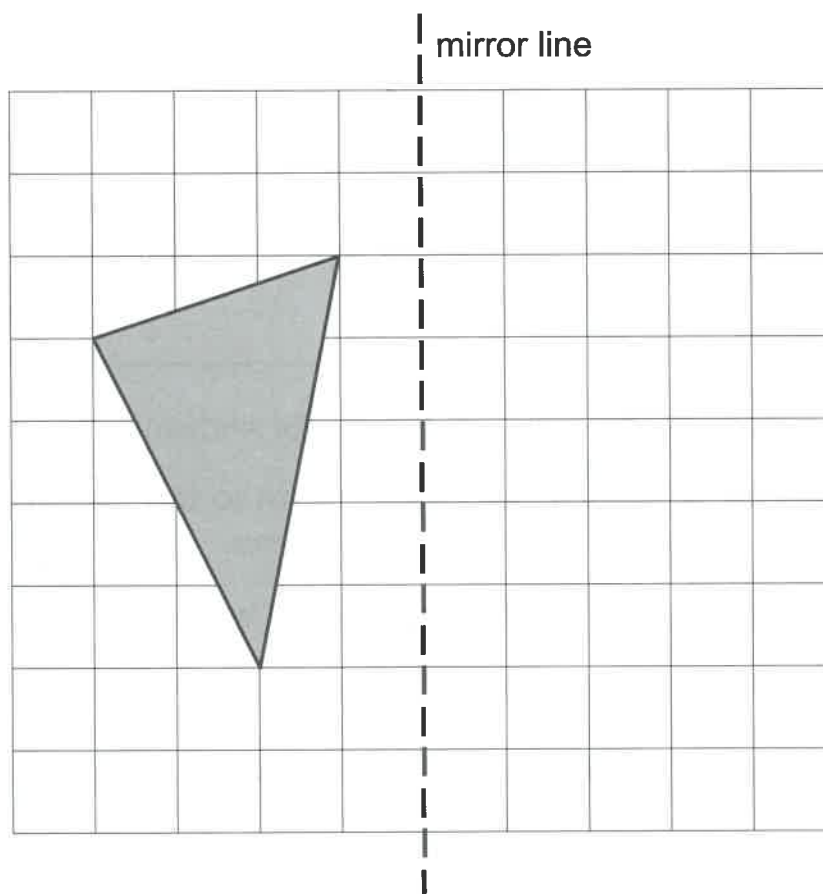
Write the number that is 1,000 more than 4,637

1 mark

2

Draw the reflection of the shape in the mirror line.

Use a ruler.



1 mark

3

The numbers in this sequence increase by 9 each time.

Write the missing numbers.

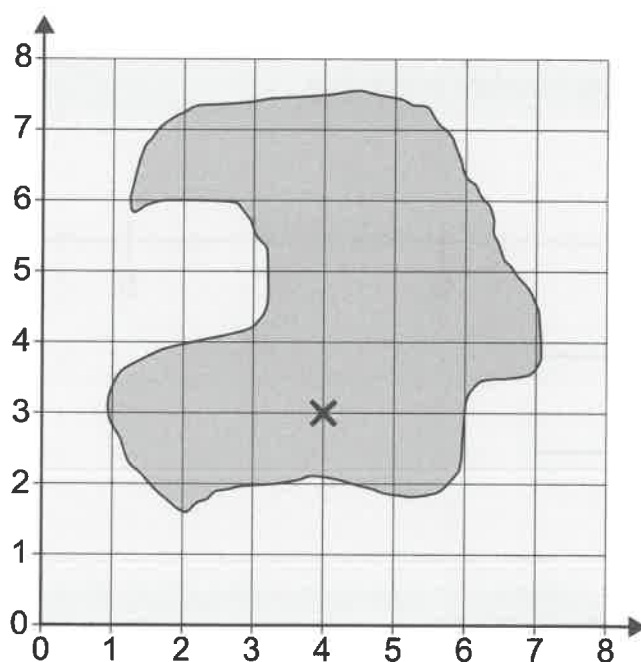
	45	54		72	
--	----	----	--	----	--

1 mark

1 mark

4

Here is a treasure map.



X marks the treasure.

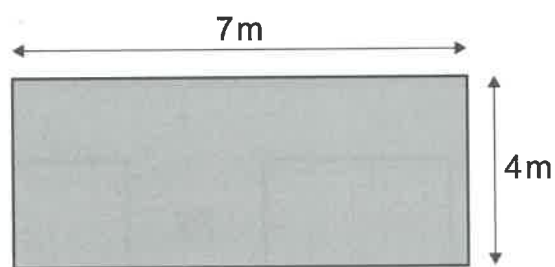
Write the coordinates of the treasure.

(,)
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1 mark

5

A farmer has a rectangular field.



Not
to scale

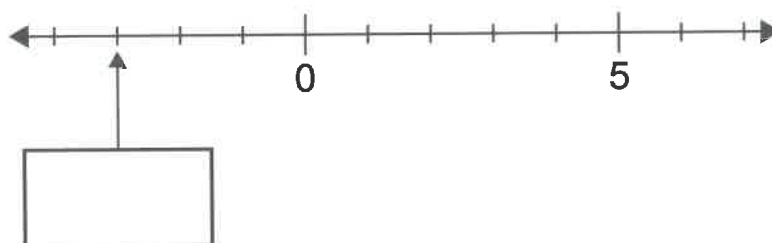
Calculate the **perimeter** of his field.

 m

1 mark

6

Write the missing number in the box.



1 mark

7

Write the missing numbers.

$$6,038 = 6,000 + \boxed{} + 8$$

1 mark

$$5,706 = 5,000 + \boxed{} + 6$$





1 mark

8

The pictogram shows how many ice creams were sold in a shop last week.

Key

 = 5 ice creams

Day	Ice creams sold
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

How many ice creams were sold on Wednesday?

ice creams

1 mark

On Saturday, twice as many ice creams were sold as on Thursday.

Complete the pictogram for Saturday above to show this.

1 mark

9

Write **10** or **100** in each box to make the calculations correct.

$$22 \div \boxed{} = 0.22$$

$$54 \div \boxed{} = 5.4$$

☐

1 mark

10

Circle **all** the numbers that are factors of 36

2

3

8

9

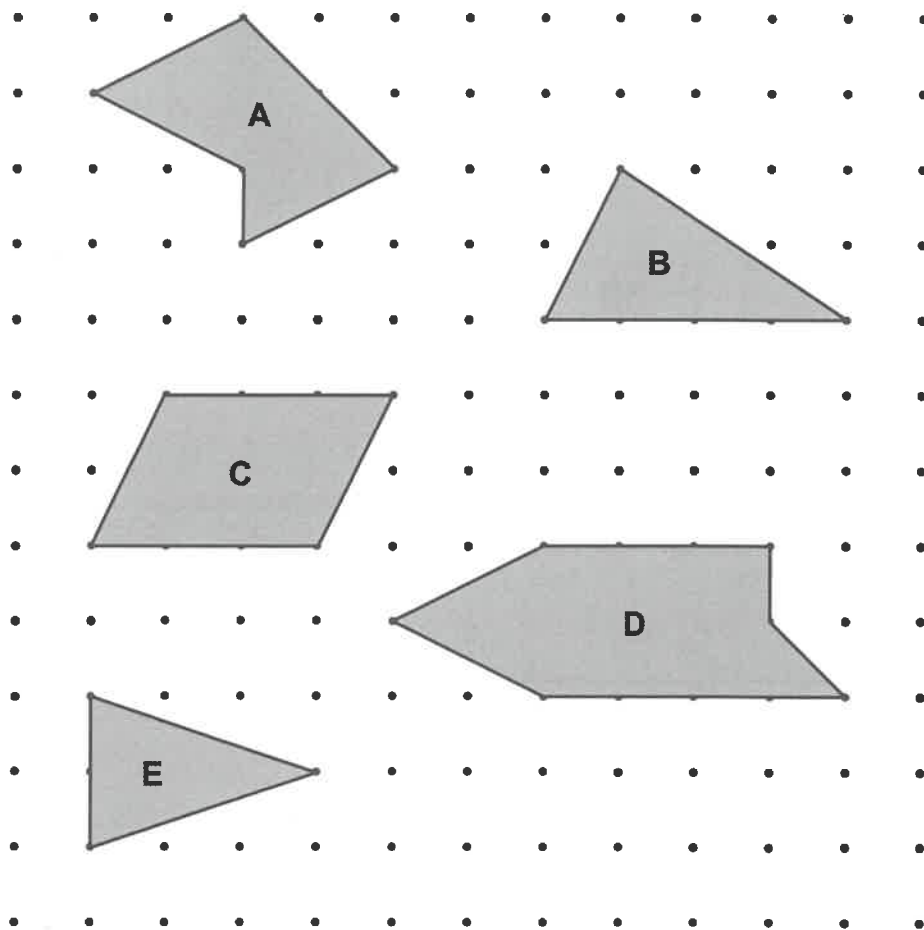
21

72

☐

1 mark

Write the missing letters in the boxes.



Shape is a scalene triangle.

Shape has two pairs of parallel sides.

Shape is a hexagon.



2 marks

12

Here are three different number lines.

Show the position of **30** by drawing an arrow (↓) on each one.

The first one has been done for you.



1 mark



1 mark

Write the missing number to make this sentence correct.

--	--

14



Lily buys **two** bottles of milk.

Show
your
method

7

11

15

A roast dinner takes **3 hours** to cook.

It has been cooking for **1 hour 48 minutes**.

How much time is left?

hour and

minutes

1 mark

16



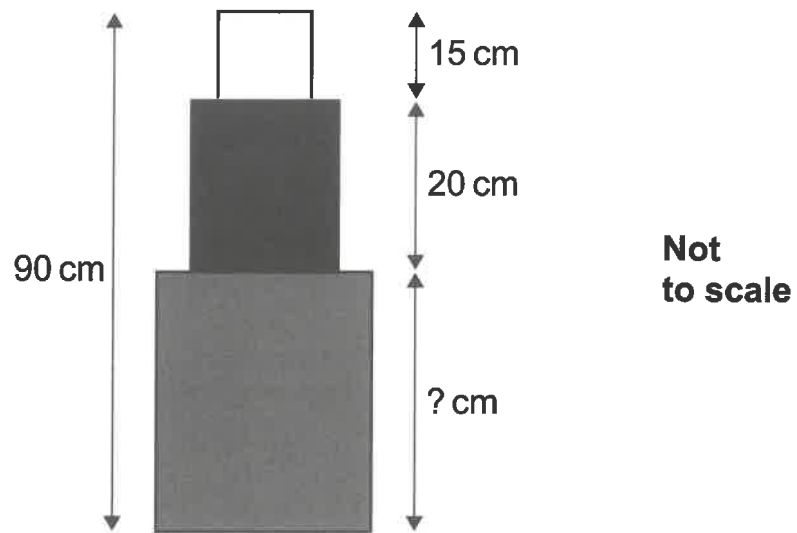
Olu has 48 marbles.

Ben has 4 times as many.

How many marbles does Ben have?

marbles

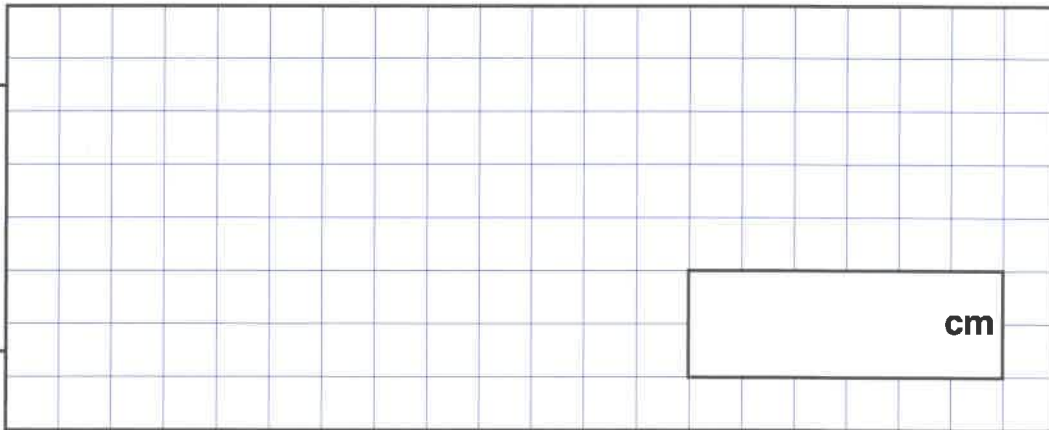
1 mark



Lily builds a tower with three boxes.

How tall is the grey block?

Show
your
method



2 marks

18

Lily reads the classroom clock as she leaves class.



She then reads the kitchen clock when she gets home.



How long did it take her to get home?

minutes



1 mark

19

Complete the equivalent fraction.

$$\frac{\boxed{2}}{\boxed{3}} = \frac{\boxed{}}{\boxed{12}}$$



1 mark

20

A farmer has 7 fields.

Each field has **29** sheep.

There are another **18** sheep in the shed.

How many sheep are there on the farm altogether?

**Show
your
method**

sheep

11

2 marks



A giraffe is **5.6 m** tall.

He weighs **1,192.3 kg**

Complete these sentences.

The giraffe is metres tall to the **nearest metre**.

1 mark

He weighs kilograms to the **nearest kilogram**.

1 mark

22

A cup holds **150 ml** of water.

Ben has **1 litre** of water.

What is the largest number of cups he can fill?

Circle the correct answer.

1
cup

6
cups

7
cups

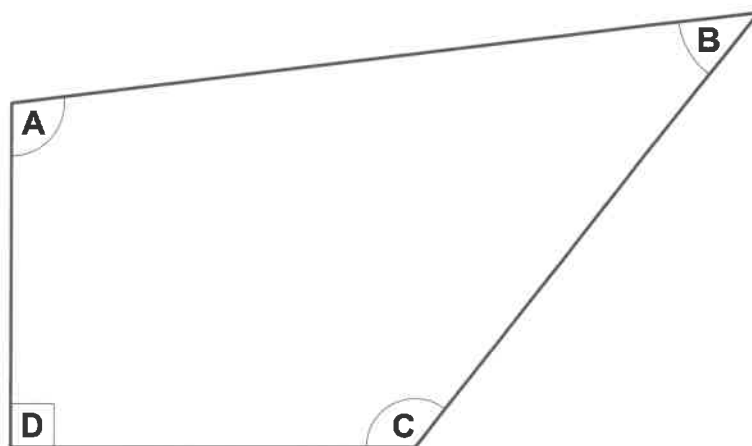
10
cups



1 mark

23

Look at the four angles, **A**, **B**, **C** and **D**.



Write these angles in order of size starting with the **smallest**.



smallest

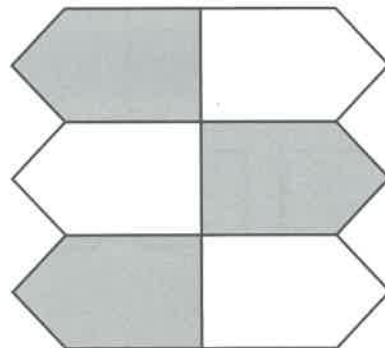
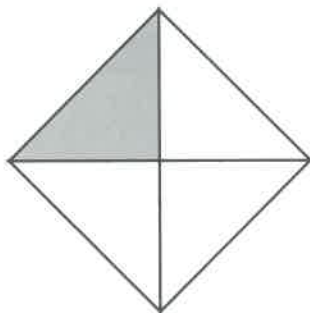
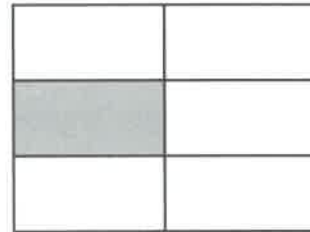
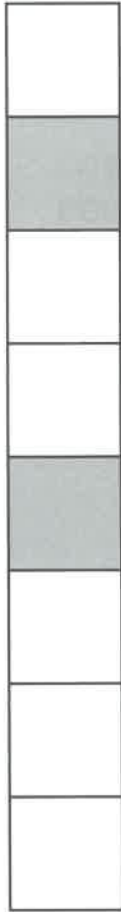


1 mark

24

Two of these shapes have the **same fraction** shaded.

Tick (✓) them.



1 mark

Complete the table.

Fraction	Decimal
$\frac{1}{2}$	0.5
$\frac{3}{4}$	
	0.3



1 mark

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