

Progress check

# Year 4

## Mathematics

### Paper 2: reasoning and problem solving

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

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# Instructions

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

## Questions and answers

You have **35 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 before the end, **go back and check your work**.

## Marks

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

1

Write the next two numbers in each sequence.

6	12	18		
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21	28	35		
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90	81	72		
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3 marks

2

Mihal is counting aloud from 0 to 250 in 25s.

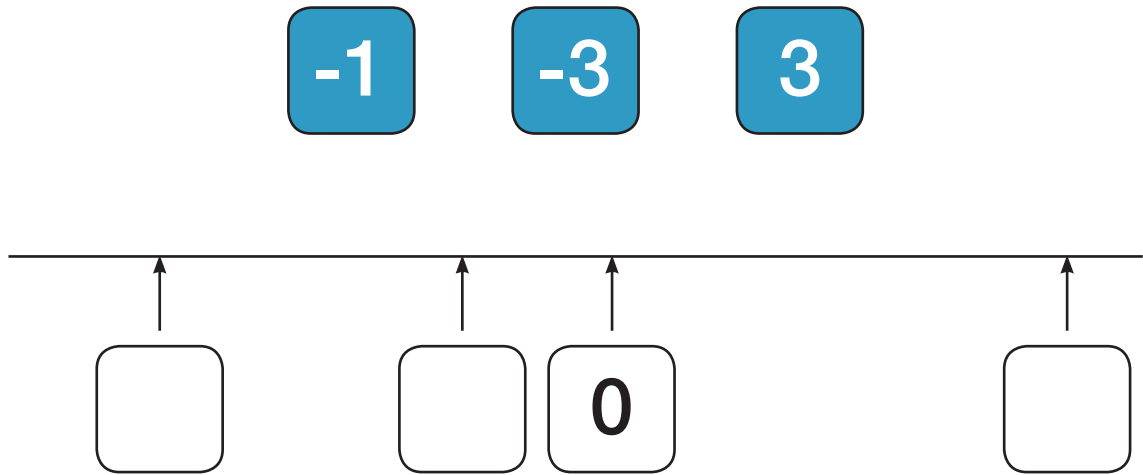
Does he say the number 150?

**Show your reasoning.**

1 mark

**3**

Use the numbers to complete the number line.



1 mark

**4**

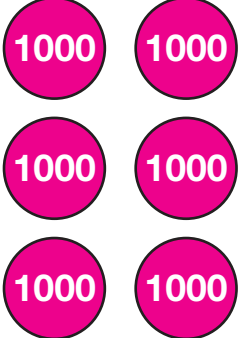
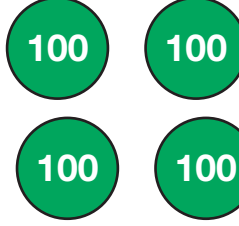
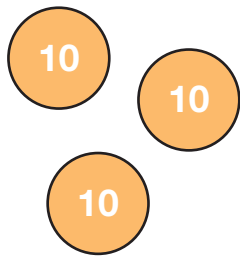
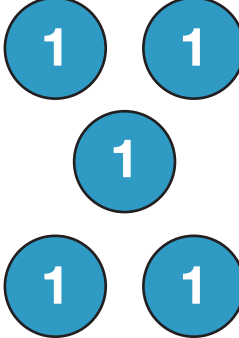
Complete the missing value.

$$3683 = 3000 + 600 + \boxed{\phantom{000}} + 3$$

1 mark

5

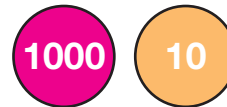
Jenny makes a 4 digit number on a place value grid.

1000s	100s	10s	1s
			

What is Jenny's number rounded to the nearest 1000?

1 mark

Jenny takes away these two counters



What number will she have now?

1 mark

6

Fill in the boxes so the numbers are in **descending** order.

3  17, 33  5, 339 ,  764

2 marks

**7**

Complete the table.

Starting number	Rounded to the nearest 10	Rounded to the nearest 100
326		
	2550	2500

2 marks

**8**

Here is a number written in Roman numerals.

**XXVII**What is **double** this number?

Write your answer in figures.

1 mark

9

Mr and Mrs Jones are saving for a holiday.

Mr Jones has saved £742

Mrs Jones has saved £1359

The holiday costs £3415

How much **more** do they need to save?

Show  
your  
method

A large grid for showing the method of calculation. A small box at the bottom right contains the pound symbol (£).

2 marks



10

Helen is calculating  $3465 + 2951$

She decides to estimate her answer first.

Tick (✓) the best estimate.

$$3000 + 2000 = 5000 \quad \square$$

$$4000 + 3000 = 7000 \quad \square$$

$$3500 + 2000 = 5500 \quad \square$$

$$3500 + 3000 = 6500 \quad \square$$

**Explain** your answer.

1 mark

**11**

Fill in the missing numbers.

$$\begin{array}{r} 5 \square 7 2 \\ - 2 6 1 \square \\ \hline \square 3 \square 8 \end{array}$$

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2 marks

12

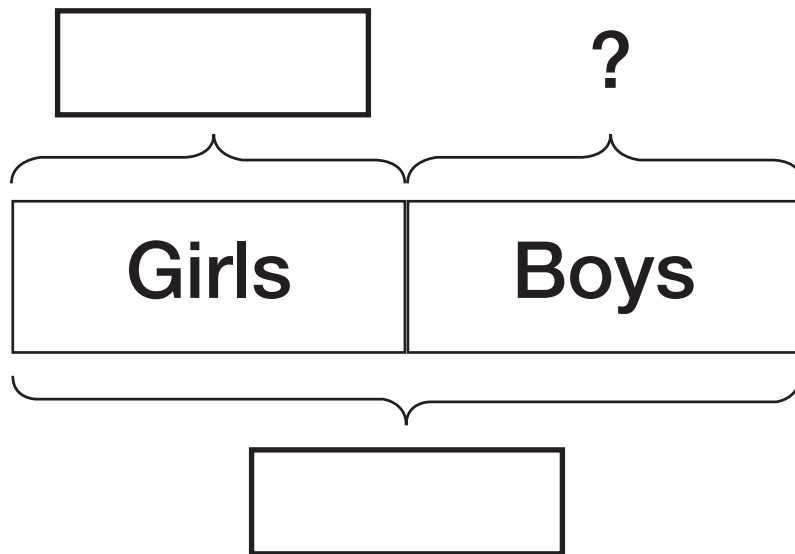
A school has 1423 pupils in total.

792 pupils are girls.

Imran wants to work out how many boys are in the school.

He uses a part – whole diagram to help him.

Fill in the correct numbers on the diagram.



1 mark

How many **boys** are there?

Show  
your  
method

A grid for showing the method to solve the problem. The grid is 10 columns wide and 10 rows high. A box labeled "boys" is drawn on the grid.

1 mark

13

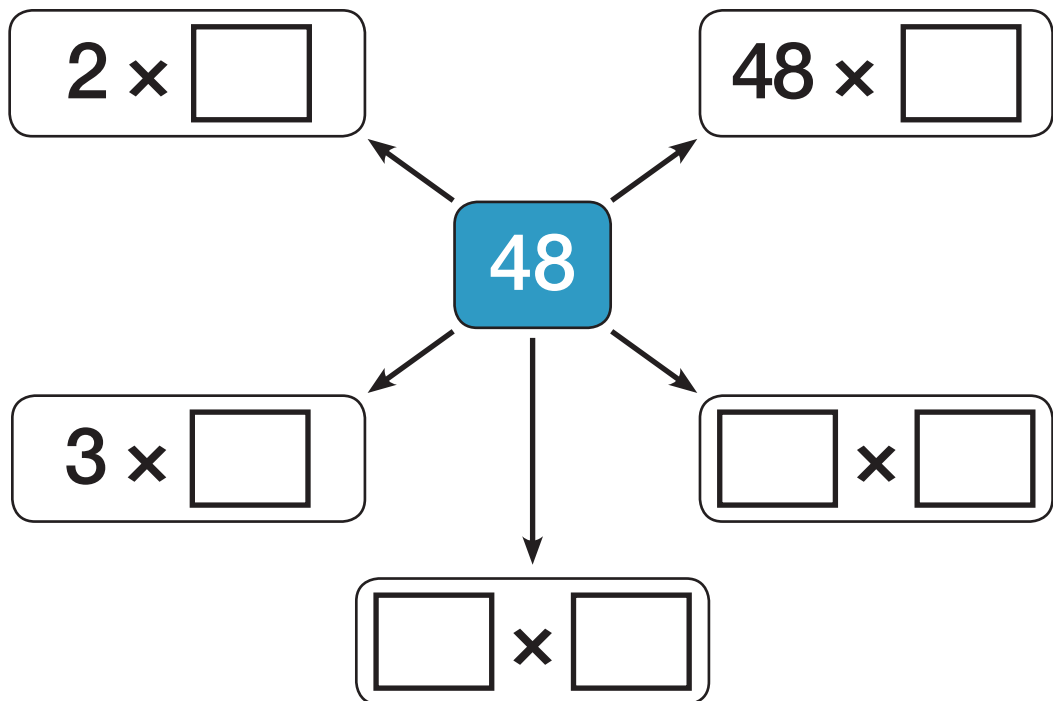
Fill in the missing number.

$$5 \times 8 \times 9 \times \boxed{\phantom{00}} = 0$$

**Explain** your answer.

1 mark

14


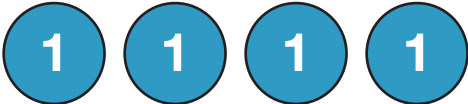


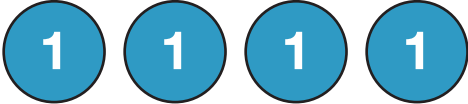

Use **different** whole numbers to complete the diagram.

2 marks

15

Waseem is using place value counters to solve  $24 \times 4$

Fill in the missing counters on the grid.

Tens	Ones
	
	
	
	

1 mark

Calculate the answer to his multiplication.

1 mark

**16**Complete the statements using  $<$ ,  $>$  or  $=$ 

$$72 \times 3 \quad \square \quad 72 \times 4$$

$$72 \div 3 \quad \square \quad 72 \div 4$$

---

1 mark

17

Kelsey buys some fairy cakes for a party.

She buys 38 packs.

There are 6 fairy cakes in each pack.

189 fairy cakes are eaten.

How many fairy cakes does Kelsey have left?

Show  
your  
method

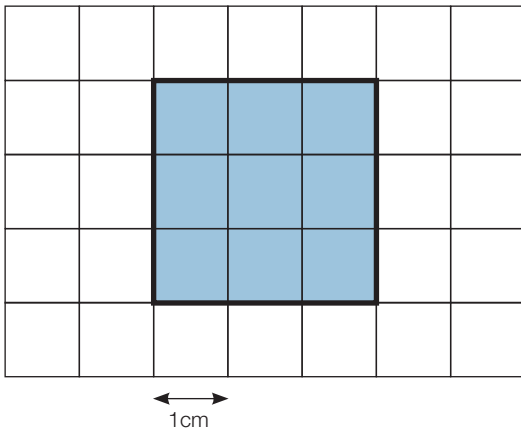
The grid is 20 columns wide and 20 rows high. A small empty rectangular box is located in the bottom right corner of the grid, spanning approximately 6 columns and 2 rows.

2 marks

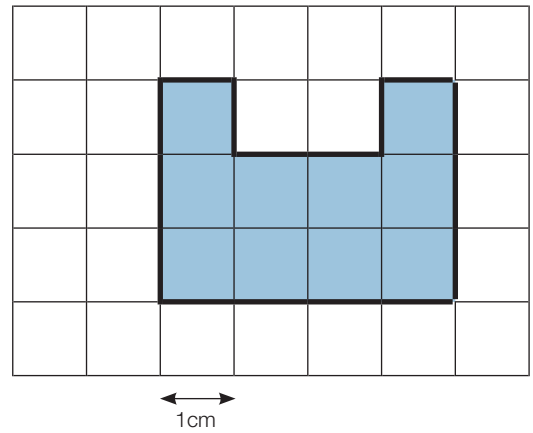
18

Two shapes are drawn on 1cm × 1cm square grids.

Shape A



Shape B



What is the **area** of shape A?

cm<sup>2</sup>

1 mark

Which shape has the largest area?

**Explain** your answer.

1 mark

END OF TEST



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