Progress check

Year 5

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

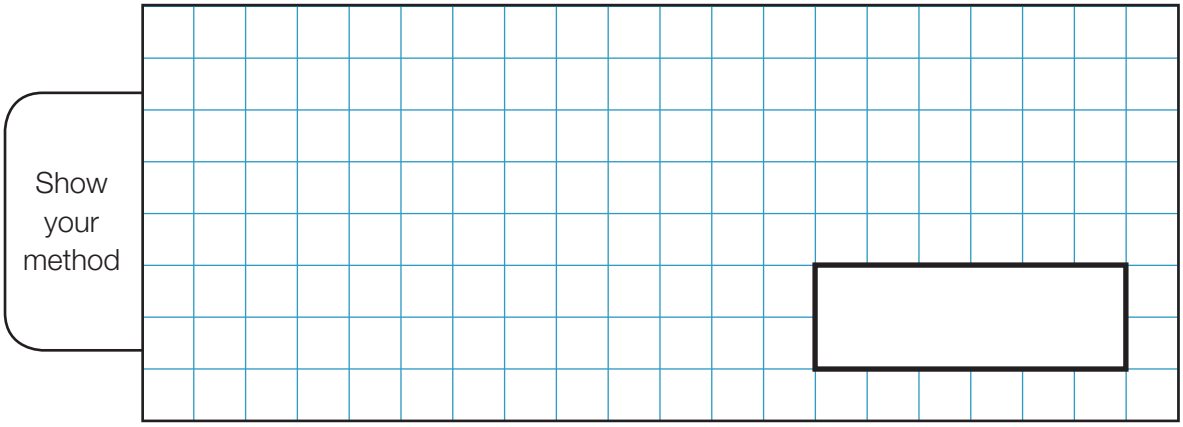
You have **35 minutes** to complete this test.

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:



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.

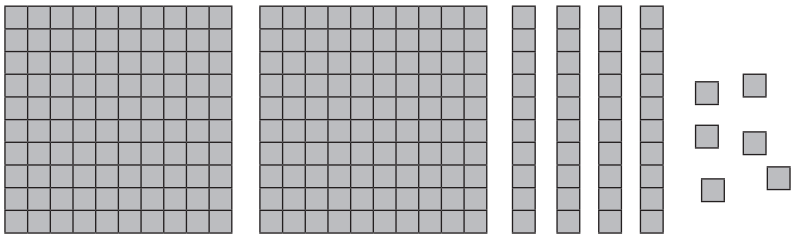
If you finish before the end, **go back and check your work**.

Marks

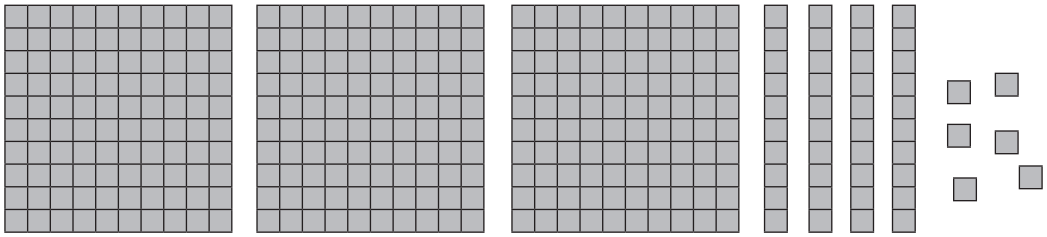
The number under each line at the side of the page tells you the maximum number of marks for each question.

1 Sarah and Max are making numbers.

Sarah's number



Max's number



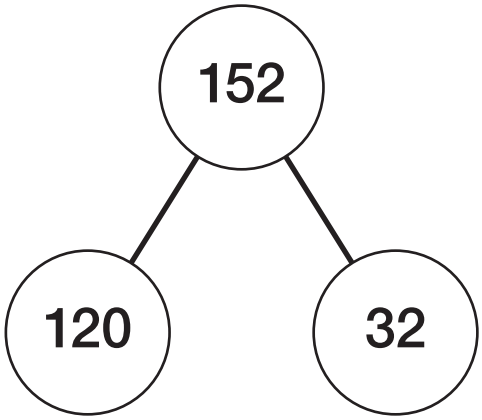
What is Sarah's number?

1 mark

What is the difference between Sarah and Max's number?

1 mark

2 Here is a part-whole model.



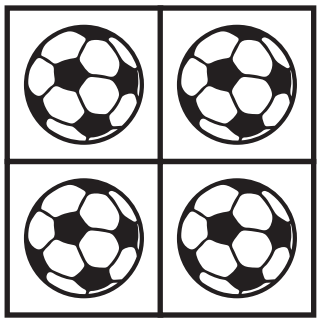
Use the model to complete the number sentences.

152 − ☐ = 32

120 = ☐ − ☐

1 mark

3 Footballs come in boxes of 4



How many footballs are in 6 boxes?

footballs

1 mark

Mr Johnson needs 36 footballs.

How many boxes should he buy?

boxes

1 mark

4 Lilly has £5

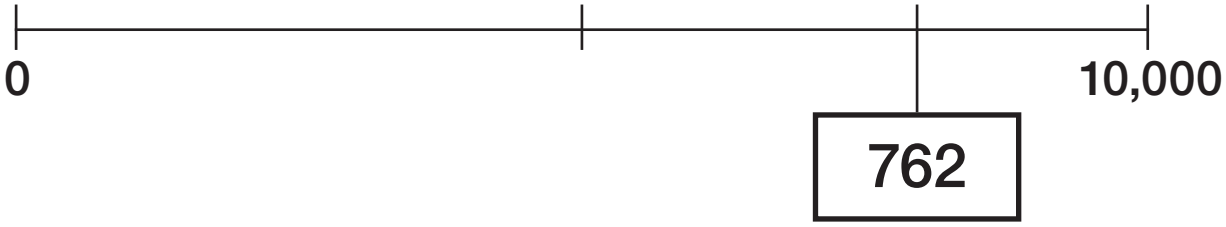
She uses these coins to buy her lunch.

How much money does Lilly have left?

£

1 mark

5 Tom places 762 on the number line.



Is Tom correct?

Yes **No**

Explain why.

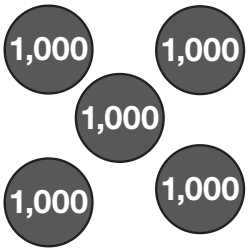
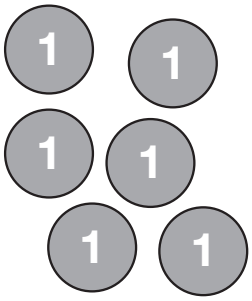
1 mark

6 Complete the missing values.

$$4{,}572 = 4{,}000 + \square + 70 + \square$$

1 mark

7 Here is a number represented on a place value grid.

Thousands	Hundreds	Tens	Ones
			

Tick the statements that are true.

It is a 3-digit number. ☐

It is an odd number. ☐

It is a thousand less than six thousand and sixteen. ☐

It rounds to 5,100 to the nearest hundred. ☐

1 mark

8 These Roman Numerals have a total of 10

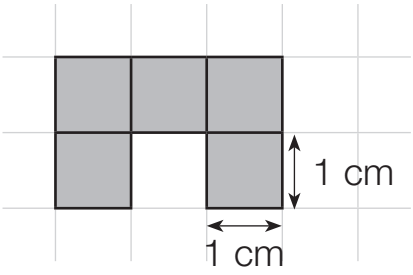
III VII

Write two Roman Numerals that have a total of 20

_____ _____

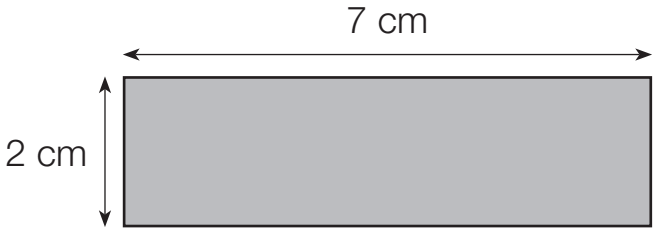
1 mark

9 Work out the perimeter of these shapes.



cm

1 mark

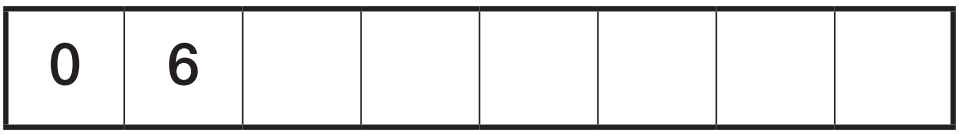


cm

1 mark

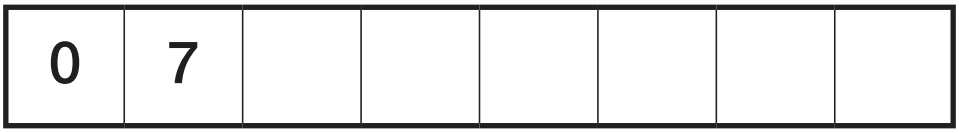
10 Jack is counting up in multiples of 6 from 0

He records his numbers on a number track.



Sam is counting up in multiples of 7 from 0

He records his numbers on a number track.



In whose track will 42 appear first?

Circle the correct name.

Jack **Sam**

Explain your answer.

1 mark

11 Complete the sequences.

29,320 **28,320** **27,320** ☐ ☐

1 mark

☐ **146,000** **156,000** **166,000** ☐

1 mark

12 A toy shop has 2,328 games in stock.

They receive 981 more games.

They sell 1,435 games.

How many games does the toy shop have now?

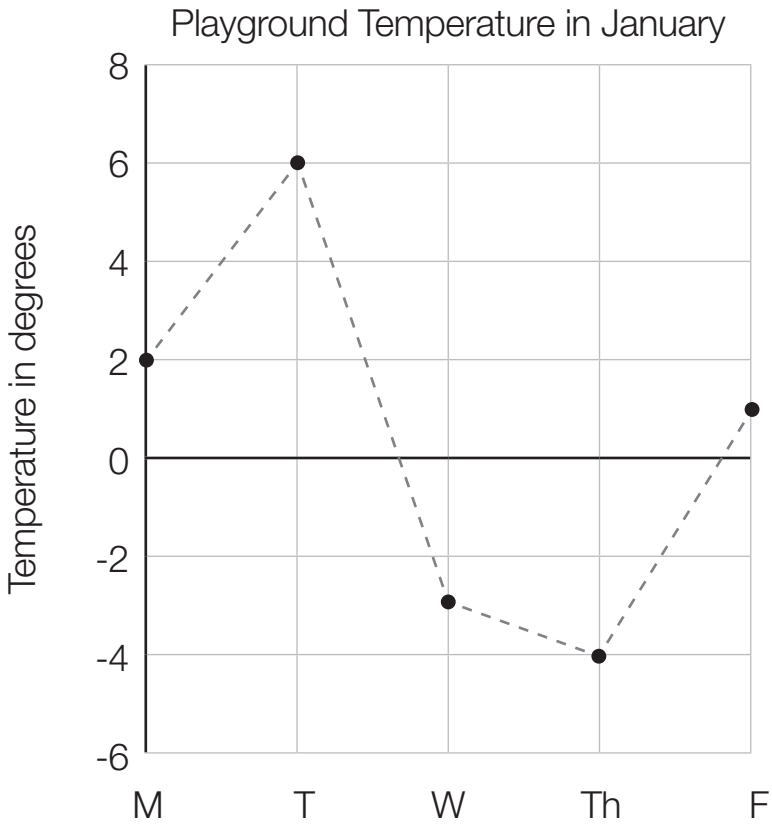
Show your method

☐ games

2 marks

13 Nisha measures the temperature at 12 noon each day.

She records her results on a graph.



Nisha says the difference between the coldest and warmest temperature is 5°C.

Is Nisha correct?

Yes **No**

Explain why.

1 mark

14 Mrs Hyde bakes 180 cookies.

She sells them in boxes of 10

Each box costs £4

How much money does she make in total?

£

1 mark

15 Complete the missing digits.

$$\begin{array}{r} 2\ 8\ \square\ 6\ 5 \\ -\ 1\ 5\ 9\ \square\ 2 \\ \hline 1\ \square\ 4\ 0\ 3 \\ \hline \end{array}$$

2 marks

16 Class 1 and Class 2 have a total of 675 house points.

Class 1 have double the number of house points that Class 2 have.

How many house points do Class 2 have?

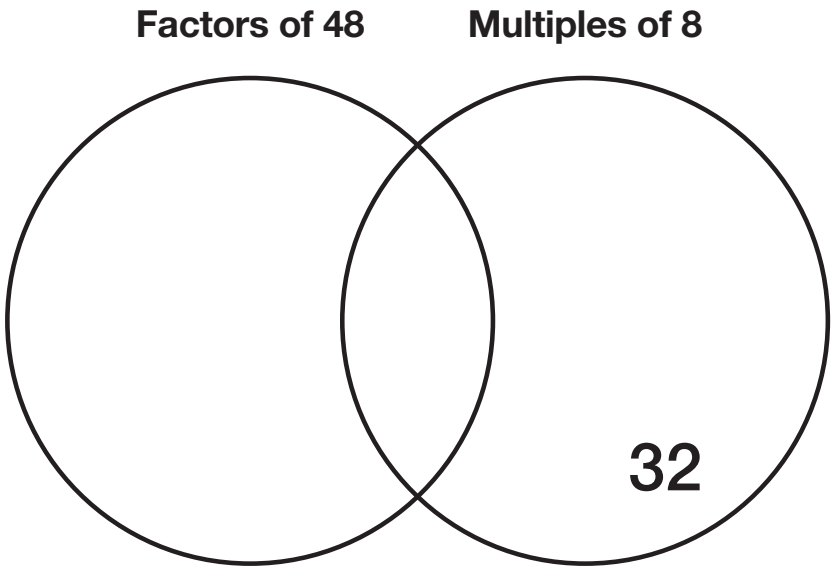
house points

1 mark

17 Write each number in it's correct place on the diagram.

4 8 16 ~~32~~ 40 48

One has been done for you.



2 marks

18 This table shows the ticket prices for a theme park.

	Monday - Friday	Saturday and Sunday
Adult	**£18.50**	**£21**
Child	**£12.50**	**£14**

A family of 2 adults and 2 children are planning to go to the theme park.

How much more would it cost to go on Saturday rather than Thursday?

Show your method

£

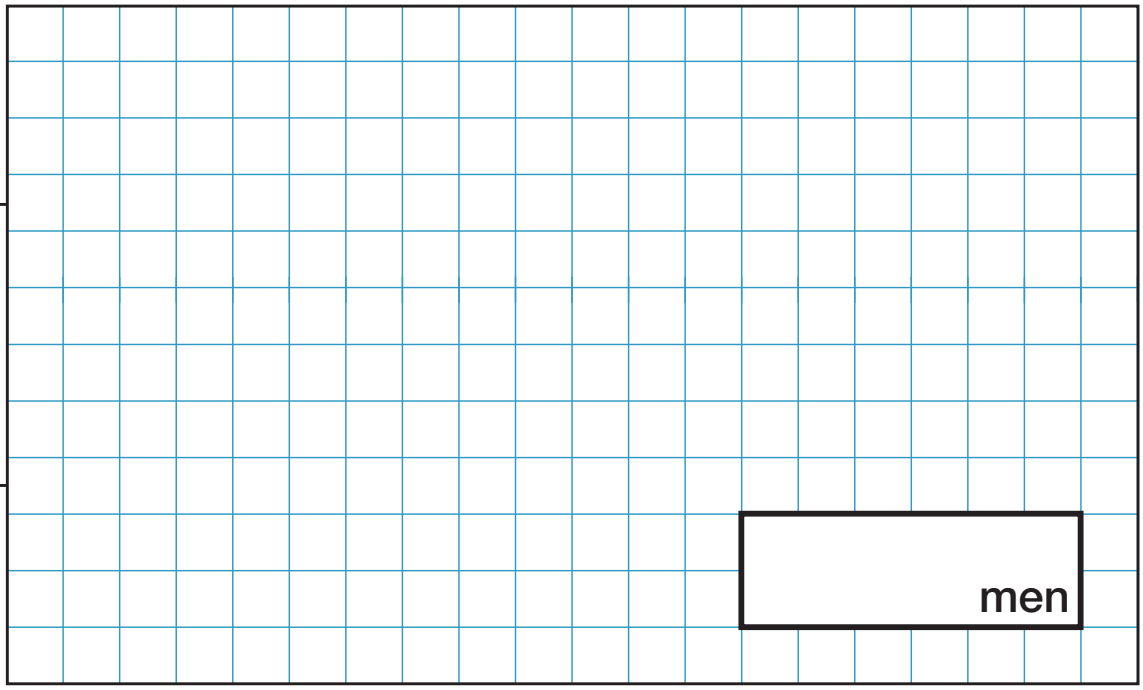
2 marks

19 In total there are 43,472 adults at a football match.

There are 4,300 more women than men at the match.

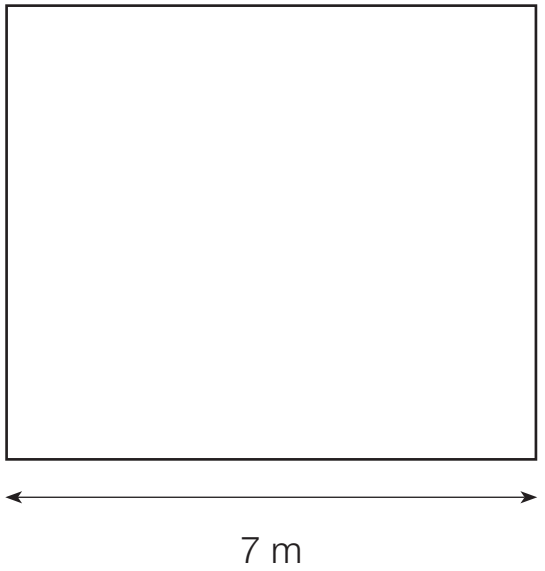
How many men are at the match?

Show your method



2 marks

20 Beth is painting a 6 metre by 7 metre wall.



not drawn to scale

One tin of paint covers 5 m^2

How many tins of paint are needed to paint the whole wall?

Show your method

tins of paint

2 marks

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