## Progress check

# Year 3

# **Mathematics**

Paper 2: reasoning and problem solving

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

These assessments have been designed by White Rose Maths. For more information, please visit **www.whiterosemaths.com** 





#### 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.

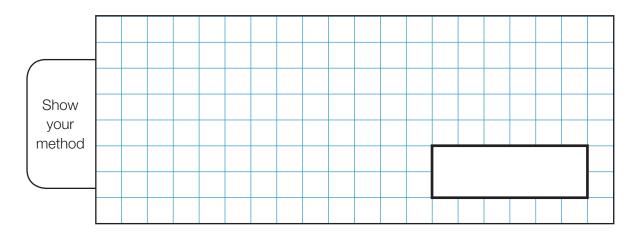
Follow the instructions for each question.

Work as quickly and as carefully as you can.

For this assessment you will require a ruler.

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.



Max is counting in tens from zero.

Circle the numbers Max will say.

10 30 25 50 12 100

1 mark

2

Emma is using place value counters to represent a number.

| 100s    | 10s | <b>1</b> s   |
|---------|-----|--|
| 100 100 | 10  | 1 1  |
| 100 100 | _   |  |
| 100 100 |     | $\left \begin{array}{c} 1 \\ 1 \end{array}\right $ |
| 100 100 |     |  |

Write Emma's number in words.

1 mark

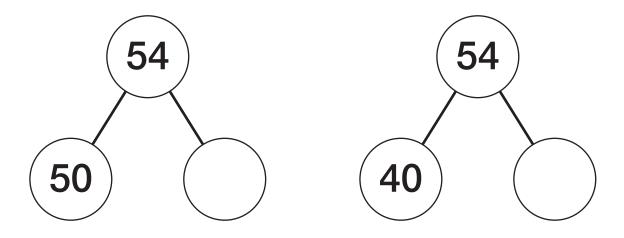
Emma adds this counter to her grid

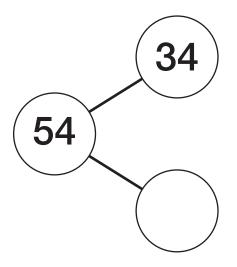
1

What is Emma's new number?









2 marks

4

Complete the missing values.

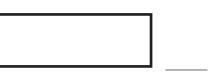
| - | 0 H |
|---|-----|
|   | ~_  |

Some counters are placed over numbers on a number track.

| 0 A 8 B            | 16 C 24       | D 32 ( | E 40 | F 48 |
|--------------------|---------------|--------|------|------|
|                    |               |        |      |      |
| What is the number | underneath A? |        |      |      |
|                    |               |        |      |      |
|                    |               |        |      |      |

1 mark

Find the difference between the numbers underneath B and D.





There are 100 children at a school fair.

57 of the children are boys.

The rest of the children are girls.

How many girls are there?

girls

1 mark

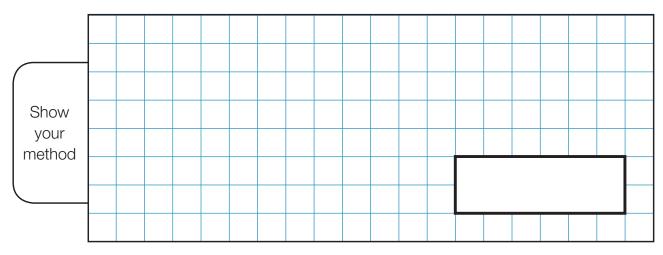
7

Apples come in bags of 4 and bags of 5

Tim has 50 apples altogether.

He has five bags of 4 apples.

How many bags of 5 apples does Tim have?





186 861 681 168

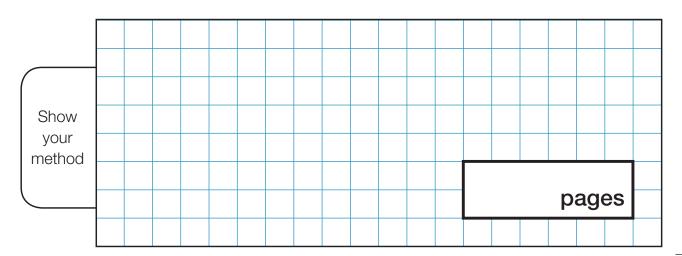
> >

1 mark

9 Sophie reads 416 pages of her book.
She reads 127 more pages than Mo.



How many pages does Mo read?





1 more than 907 is

is ten more than 333

100 less than is 677

500 is hundreds less than 700

2 marks

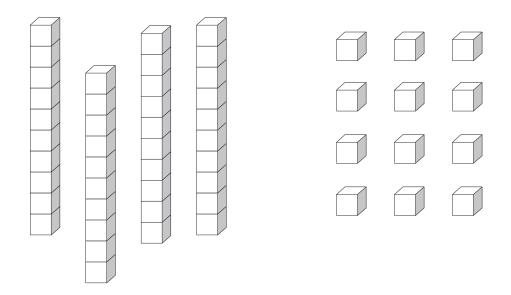
Fill in the boxes to make the subtraction correct.

#### Work out the missing value.

Show your working.



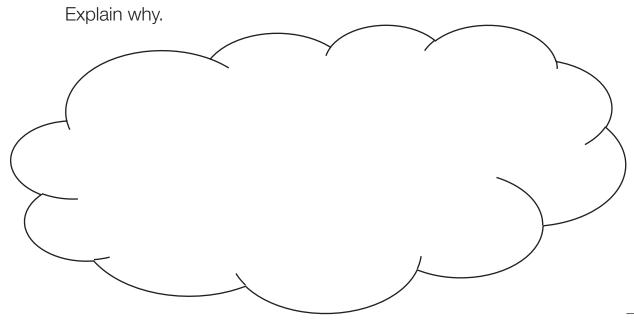
Beth makes a number.



Beth thinks she has made 412

Do you agree?

# Yes No



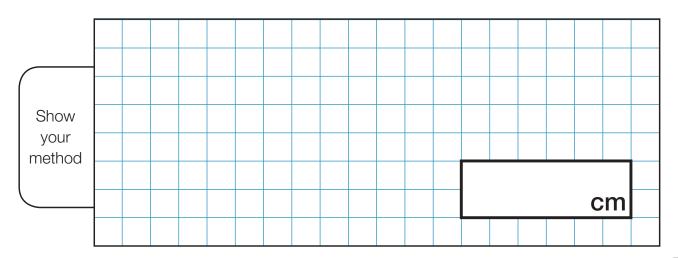


Jack has a piece of string.

He cuts seven equal pieces of 5 cm.

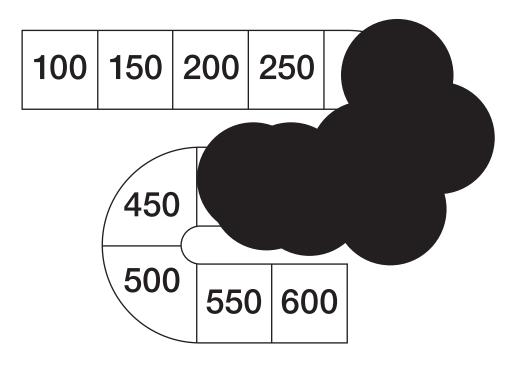
He has 4 cm of string left.

How long was the piece of string to start with?





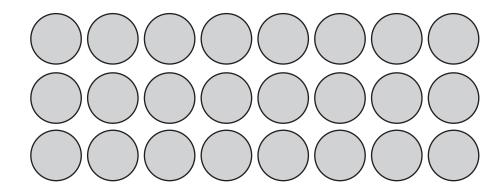
Here is a number track.



lan has spilt paint over part of the track.

List all of the numbers covered by the paint.





**Use the array** to complete the mathematical statements.

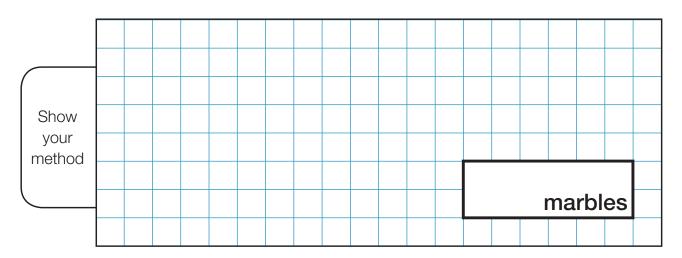


Libby has 430 marbles.

Jamal has 121 fewer than Libby.

Jamal is trying to collect 500 marbles.

How many more marbles does Jamal need?

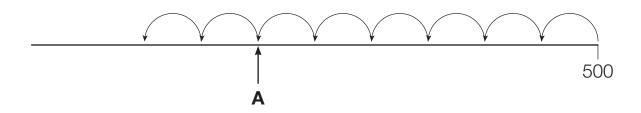




Put the **same** digit in each box to make the statements correct.

1 mark

19 Kate is counting backwards in 5s from 500



What number is A pointing to?



1 mark

#### **END OF TEST**







