

Spring 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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ISBN 978-1-80478-022-0



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Instructions

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

Questions and answers

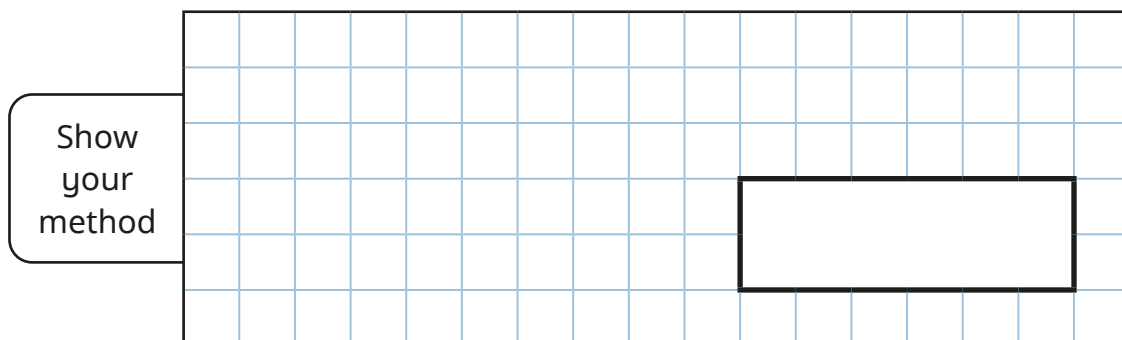
You have **50 minutes** to complete this paper.

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.

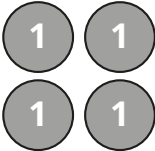
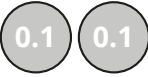
If you finish before the end, **go back and check your work.**

Marks

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

1

Tommy makes this number.

Ones	Tenths	Hundredths
		

What number has Tommy made?

1 mark

Tommy adds these counters to the place value chart.

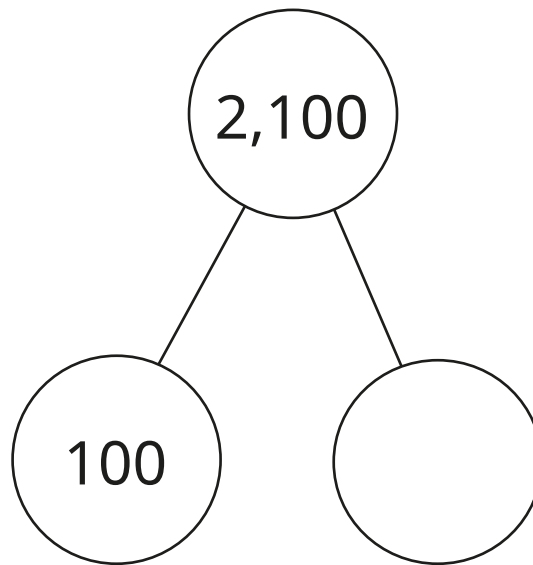


What number has Tommy made now?

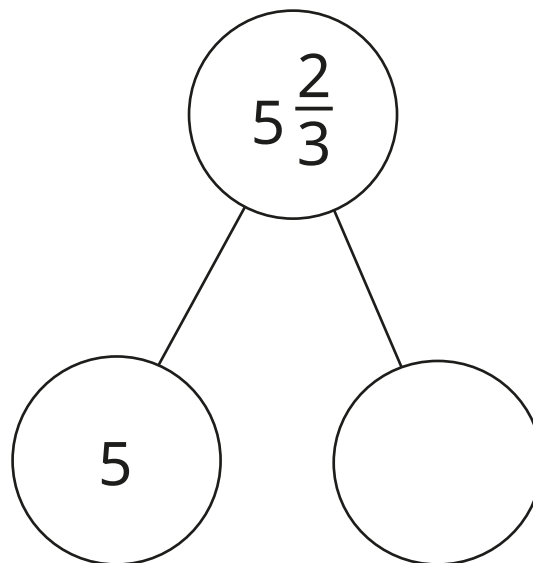
1 mark

2

Complete the part-whole models.



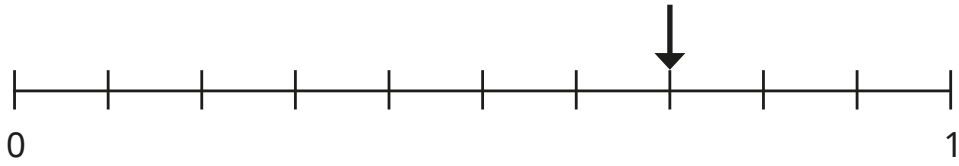
1 mark



1 mark

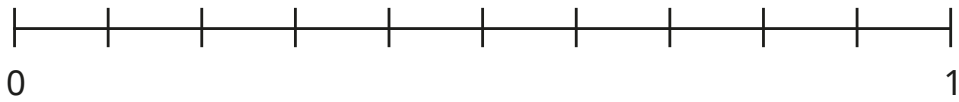
3

What fraction is the arrow pointing to?



1 mark

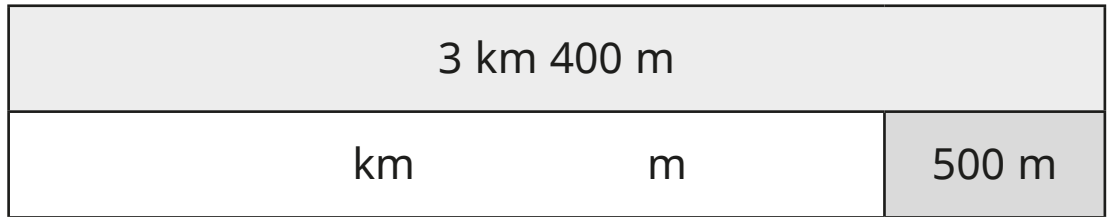
Draw an arrow to 0.3 on the number line.



1 mark

4

Complete the bar model.



1 mark

5

Draw lines on the bar model to show that $\frac{2}{3}$ is equivalent to $\frac{4}{6}$



1 mark

6

Complete the number sentence.

$$9 \times 8 = 10 \times 8 - \boxed{}$$

1 mark

7

Whitney is dividing this number by 100

Thousands	Hundreds	Tens	Ones
●	● ●		

Draw counters to show her answer.

Thousands	Hundreds	Tens	Ones

1 mark

8

List **all** the factors of 8

1 mark

9

Circle the number that is divisible by **both** 5 and 7

140

145

170

1 mark

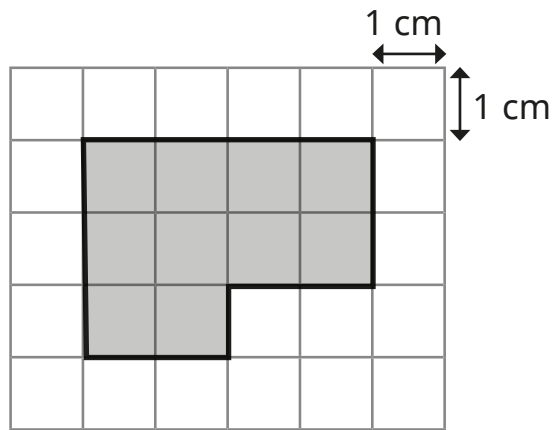
10

Write 12 hundredths as a decimal.

1 mark

11

Here is a shape.



Work out the area of the shape.

1 mark

Work out the perimeter of the shape.

1 mark

12

Mo is using place value counters to work out a division.

Tenths	Ones
10	1 1 1
10	1 1 1
10	1 1 1
10	1 1 1

Circle the division that Mo has worked out.

$13 \div 4$

$31 \div 4$

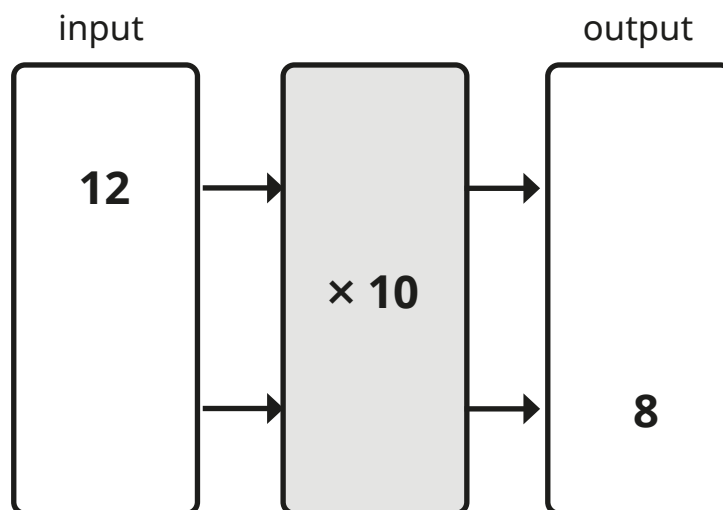
$48 \div 4$

$52 \div 4$

1 mark

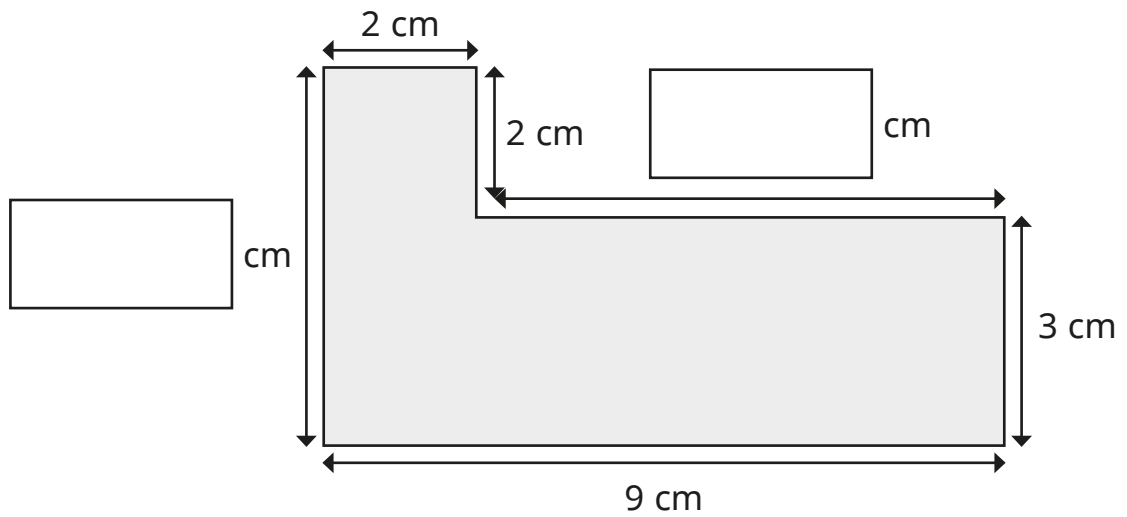
13

Complete the function machine.



2 marks

14



Fill in the missing lengths.

1 mark

Work out the perimeter of the shape.



1 mark

15

Write a number in each box to make the statements correct.

$$\frac{8}{5} - \frac{\square}{5} = 1$$

1 mark

$$2 < \frac{\square}{5} < 3$$

1 mark**16**

Write a digit to make the statement correct.

$$3._7 > 3.78$$

1 mark

17

Complete the number track.

	2			2.03	2.04
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2 marks

18

Annie and Teddy are washing cars for charity.

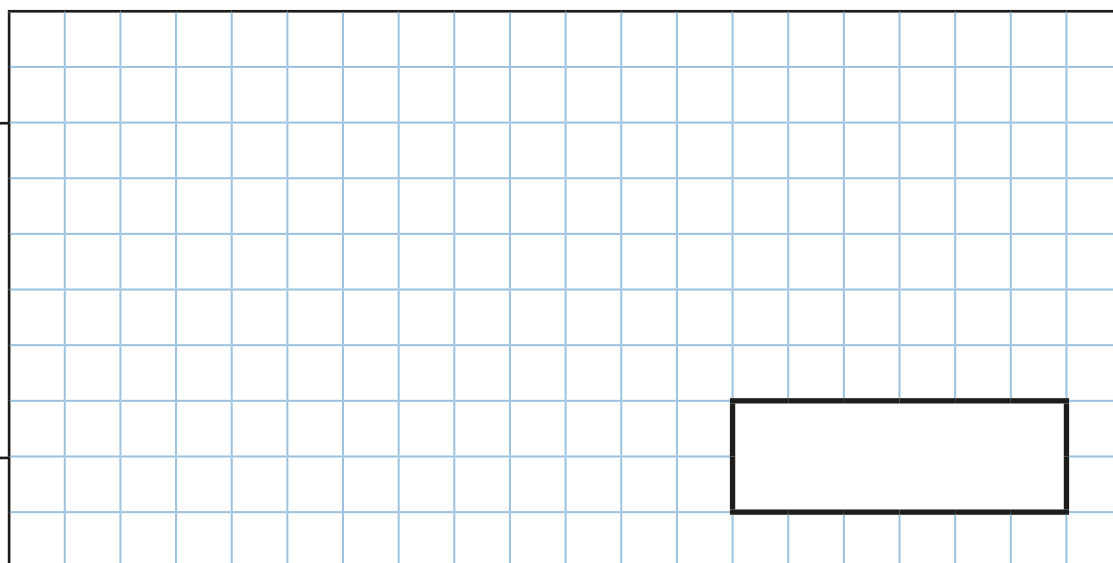
They make £5 for every car they wash.

Annie makes £60

Teddy washes three more cars than Annie.

How many cars did they wash altogether?

Show
your
method



2 marks

19

4 pizzas are each cut into 6 equal slices.
Jack and Rosie both eat 5 slices of pizza.

How much pizza is left?

Give your answer as a mixed number.

2 marks

20

Eva rounds a number to the nearest 1,000 and gets 5,000
Amir rounds a number to the nearest 100 and gets 5,600
Amir says that his number must be greater than Eva's.

Do you agree with Amir?

Circle your answer.

Yes

No

Explain your answer.

1 mark

END OF PAPER

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