Spring 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 paper.

Questions and answers

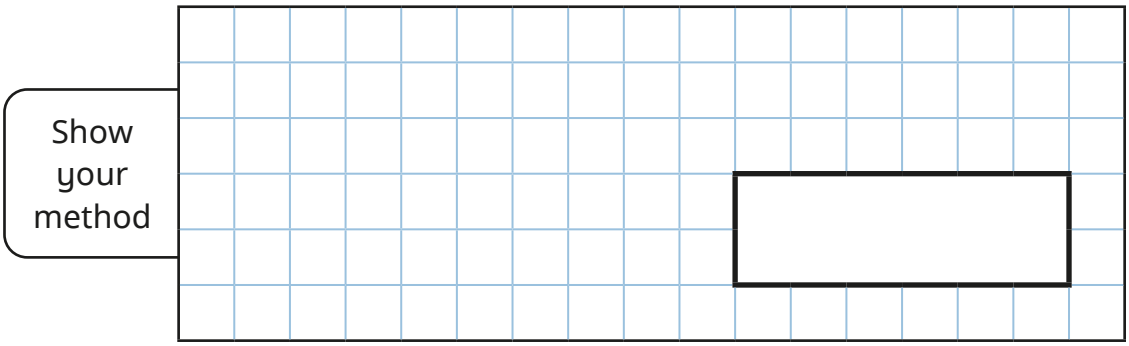
You have **50 minutes** to complete this paper.

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.

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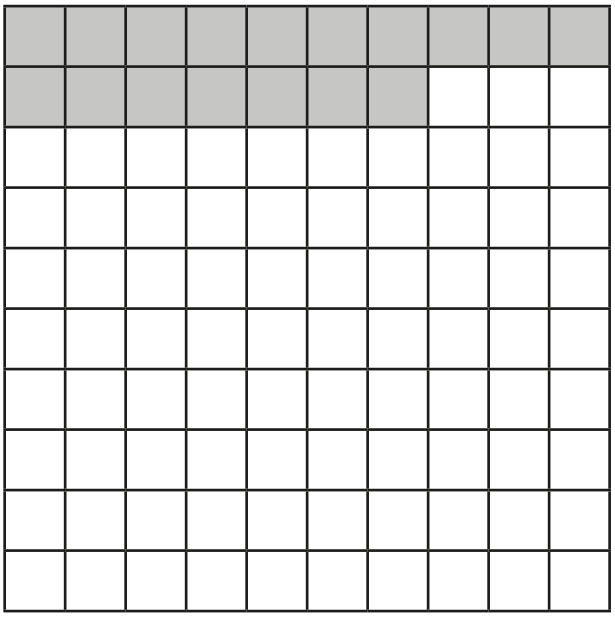
1 Max has **4** boxes of apples.

Each box has **30** apples.

How many apples does Max have in total?

1 mark

2 What percentage of the hundred square is shaded?



%

1 mark

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3 The place value chart shows 4.23

Tens	Ones	Tenths	Hundredths
	1 1 1 1	0.1 0.1	0.01 0.01 0.01

Complete the number sentences.

$4.23 = 4 + 0.2 +$ ☐

1 mark

$4.23 = 3 +$ ☐ $+ 0.03$

1 mark

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4 The product of two numbers is 84

One of the numbers is 6

Work out the other number.

☐

1 mark

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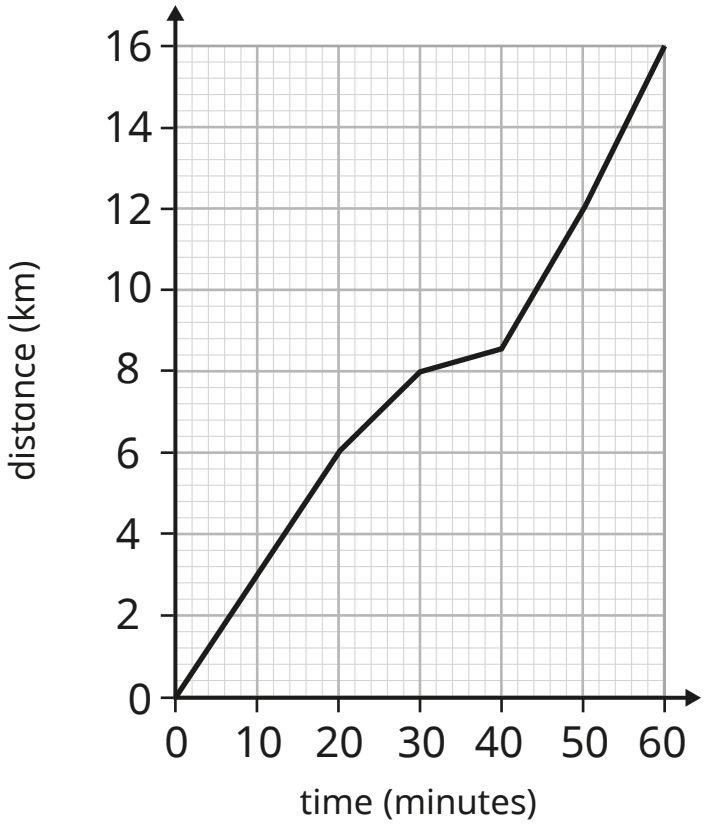
5 The graph shows the distance Eva travels on a bike ride.



How long does it take Eva to cycle 12 km?

minutes

1 mark

Estimate how far Eva has cycled after 20 minutes.

km

1 mark

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6 Round 5.6 to the nearest whole number.

1 mark

Round 16.49 to 1 decimal place.

1 mark

7 Complete the table.

Fraction	Decimal	Percentage
$\frac{7}{10}$	0.7	%
$\frac{9}{100}$		%

2 marks

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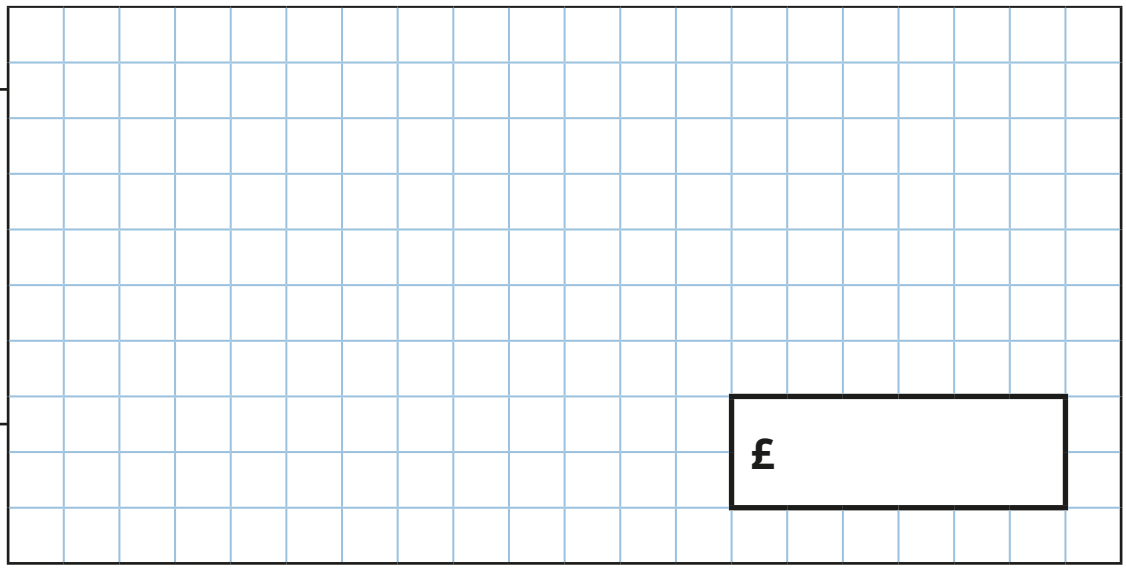
8 Adult tickets for the zoo cost £12

The total cost of tickets for 3 adults and 4 children is £56

Work out the cost of **one** child ticket.

Show your method



2 marks

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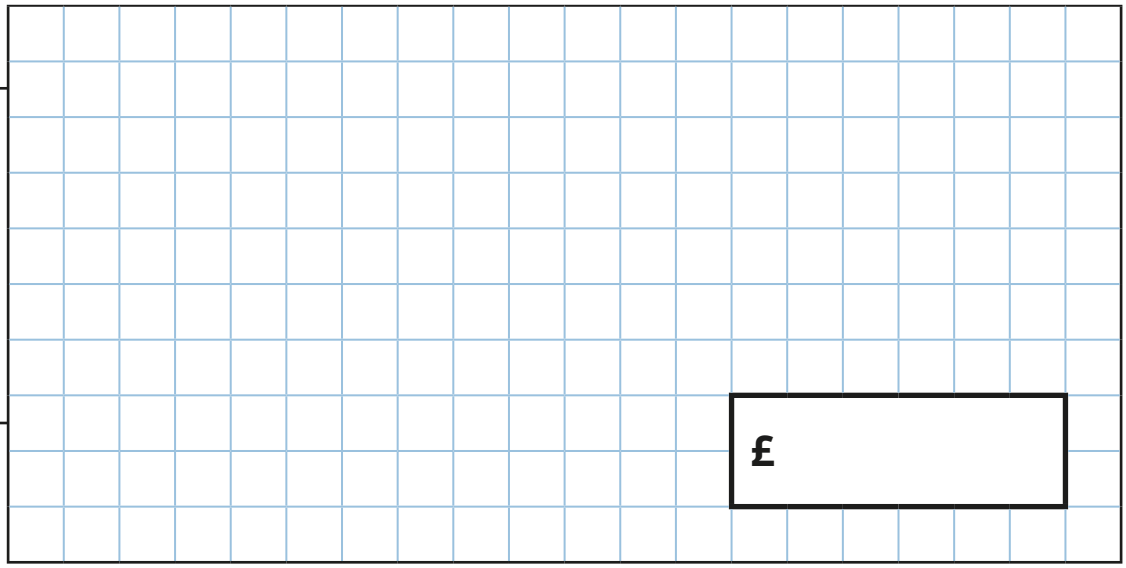
9 Dexter has £54

He spends $\frac{1}{3}$ of his money on a jumper.

How much money does he have **left**?

Show your method



2 marks

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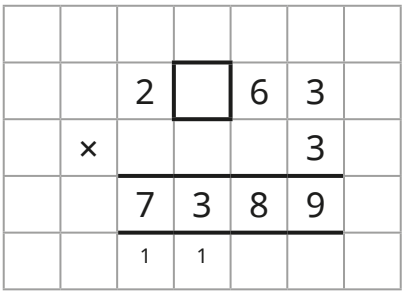
10 Write the numbers from smallest to greatest.

9.004 9.4 9.44 9.04

_____

1 mark

11 Find the missing digit.



1 mark

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12 Is the statement true or false?

$$\frac{40}{100} > 0.4$$

Circle your answer.

True **False**

Explain how you know.

1 mark

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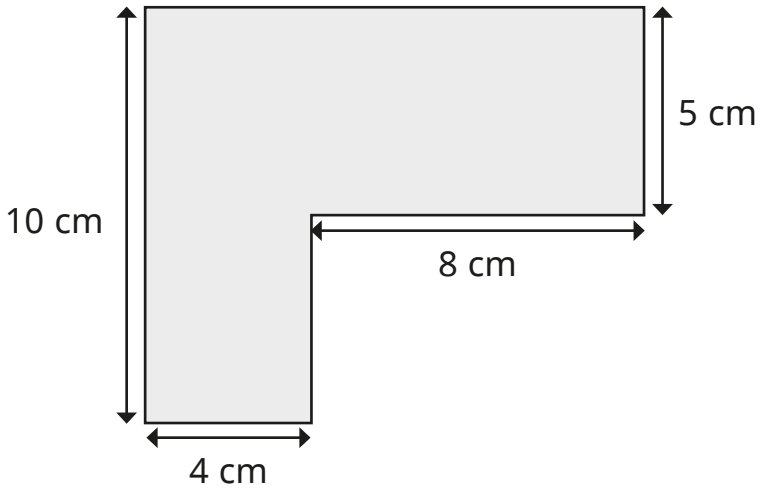
13 Work out the perimeter of the shape.



cm

2 marks

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14 Rosie is making bracelets.

Each bracelet has 9 beads.

She has 147 beads.

How many bracelets can Rosie make?

1 mark

How many beads will Rosie have left over?

1 mark

15 Amir's cat eats $3\frac{1}{2}$ tins of food every two days.

How many tins does the cat eat in 12 days?

Show your method

2 marks

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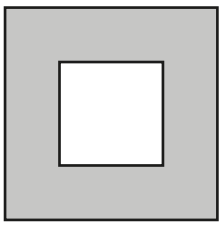
16 Max has a square piece of paper.

He cuts a square of side length 4 cm from the paper.



The area of the remaining paper is 65 cm^2

What is the length of the piece of paper?

Show your method

cm

2 marks

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17 Sam is given some money for her birthday.

She spends $\frac{2}{5}$ of the money on a coat.

The coat costs £50

How much money did Sam get for her birthday?

Show your method

£

2 marks

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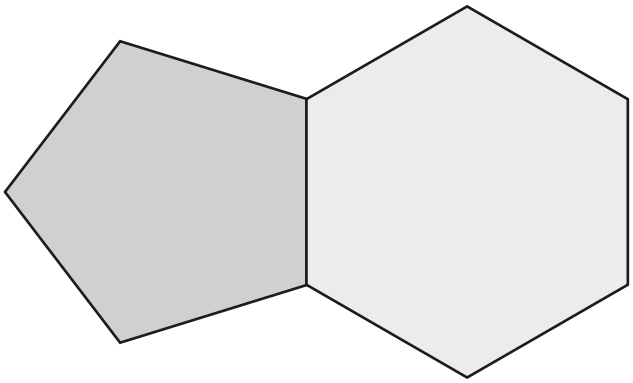
18 Jack makes a shape using a regular pentagon and a regular hexagon.

The perimeter of the pentagon is 35 cm.

What is the perimeter of Jack's shape?



Show your method

cm

2 marks

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