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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White Rose Maths

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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 Complete the sequences.

$$\frac{29}{100}, \frac{30}{100}, \frac{31}{100}, \boxed{}, \boxed{}, \boxed{}$$
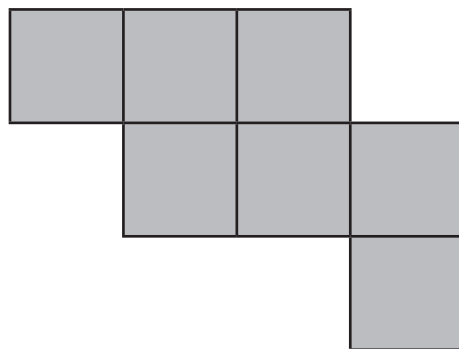
0.6, 0.7, 0.8, ☐, ☐, ☐

2 Here is a patio made of square tiles.

The area of each tile is 1 m².

What is the area of the patio?

☐ m²

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3 There are 10 sheets of stickers in a pack.

Each sheet has the same number of stickers.

There are 160 stickers altogether in a pack.

How many stickers are on each sheet?

4 Complete the boxes.

18	rounded to the nearest 10	

182	rounded to the nearest 10	

182	rounded to the nearest 100	

5 Tick the statements that are equal to 24 × 9

3 × 8 × 9

4 × 6 × 9

9 × 2 × 12

12 × 18

1 mark

6 Jemima has £352

Henry has £1,000 more than Jemima.

How much money do they have altogether?

Show your method

£

1 mark

Match each diagram to the correct fraction.

$$\frac{2}{3}$$

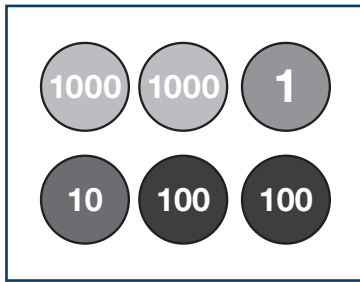$$\frac{1}{2}$$

$$\frac{3}{4}$$

$$\frac{5}{8}$$

2 marks

8

Complete the table.

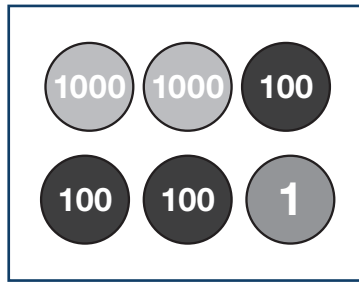| Fraction	Decimal
$\frac{3}{10}$	
$\frac{3}{100}$	
$\frac{3}{4}$	

2 marks

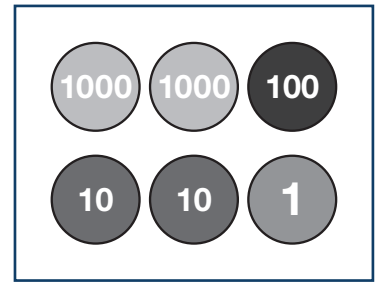Sarah makes three 4-digit numbers.

A   B   C

Write A in words.

_____

1 mark

Write B in digits.

[   ]

1 mark

Order the numbers in **ascending** order.

Use the letters A, B and C to complete the boxes.

☐ < ☐ < ☐

1 mark

10 Tom is planting seeds.

He plants 18 rows with 7 seeds in each row.

$\frac{1}{3}$ of the seeds are eaten by birds.

How many seeds are eaten by birds?

Show your method

| seeds |

2 marks

11 Complete the boxes.

$$5 \div 100 = \boxed{}$$

$$\boxed{} \div 10 = 3.5$$

$$4 \div 10 = \boxed{} \div 100$$

3 marks

Match the calculations with the same answer.

$$\frac{3}{10} + \frac{7}{10}$$

$$\frac{9}{7} - \frac{4}{7}$$

$$\frac{2}{7} + \frac{3}{7}$$

$$\frac{5}{7} + \frac{2}{7}$$

$$\frac{13}{7} - \frac{4}{7}$$

$$\frac{2}{7} + 1$$

2 marks

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13 On Monday, Tony cycles 1,340 metres.

On Tuesday, he cycles 2 kilometres.

What is the difference between the distances he cycles on Monday and Tuesday?
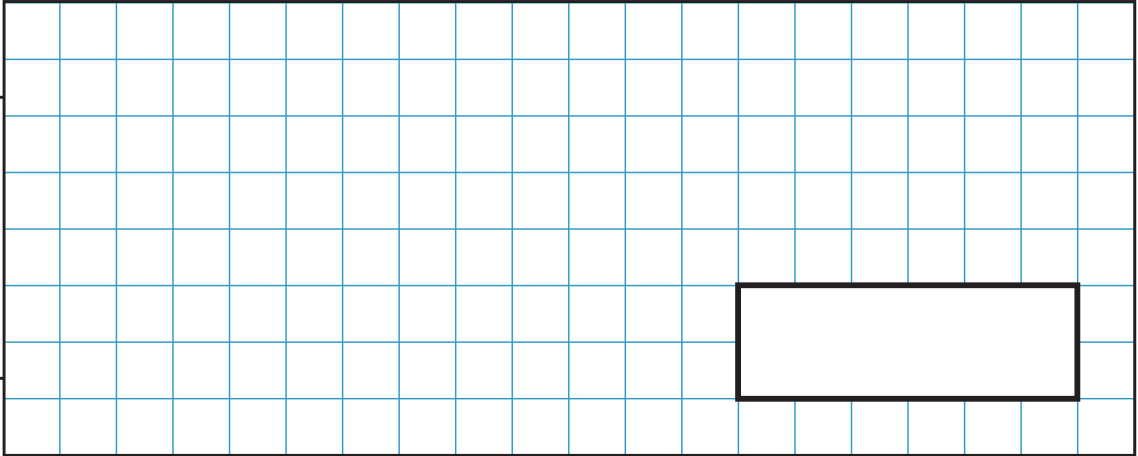
Give your answer in metres.

Show your method

m

14 There are 67 adults at a disco.

There are 6 times as many children as adults.

How many people are at the disco altogether?

Show your method

2 marks

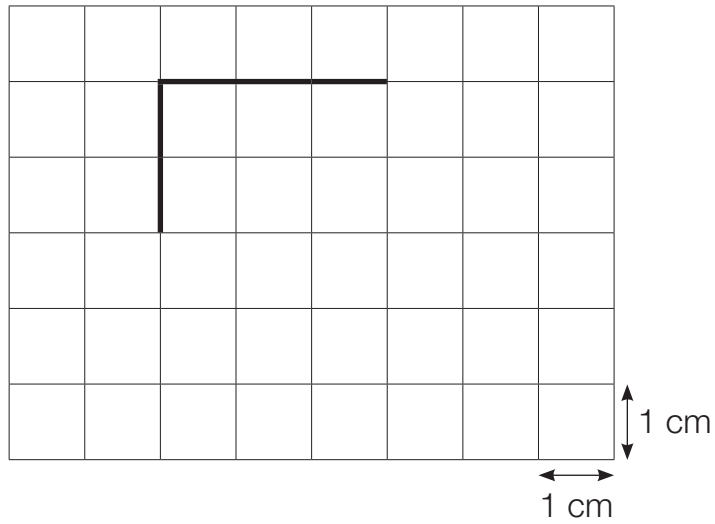**15** Complete the number sentence.

$$7 \times \boxed{} = 8 \times 21$$

1 mark

16 Jasmine is drawing a shape with an area of 8 centimetre squares.

It has a perimeter of 12 centimetres.

Complete Jasmine's shape.

1 cm

1 cm

1 mark

17 A box of chocolates contains dark, milk and white chocolates.

$\frac{4}{15}$ of the box are white chocolate.

$\frac{8}{15}$ of the box are milk chocolate.

6 chocolates in the box are dark chocolate.

How many chocolates are there in the box altogether?

Show your method

2 marks

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