

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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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.

$$\frac{29}{100}, \frac{30}{100}, \frac{31}{100}, \boxed{}, \boxed{}$$

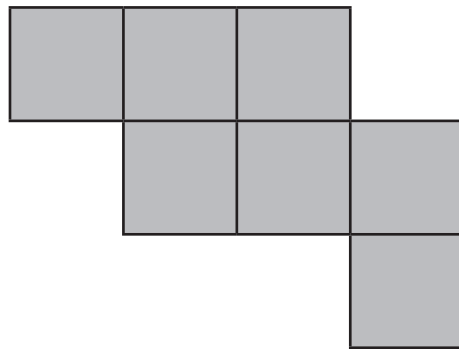
$$0.6, 0.7, 0.8, \boxed{}, \boxed{}$$

2 marks

2

Here is a floor made of square tiles.

The area of each tile is 1 m^2 .



What is the total area of the floor?

$\boxed{} \text{ m}^2$

1 mark

3

There are 10 sheets of stickers in a pack.

Each sheet has the same number of stickers.

There are 120 stickers altogether in a pack.

How many stickers are on each sheet?

1 mark

4

Complete the boxes.

rounded to the nearest 10



rounded to the nearest 10



rounded to the nearest 100



2 marks

5

Tick the statements that are equal to 24×9

$$3 \times 8 \times 9$$

$$2 \times 4 \times 9$$

$$9 \times 2 \times 12$$

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

7

Match each diagram to the correct fraction.



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



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



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

2 marks

8

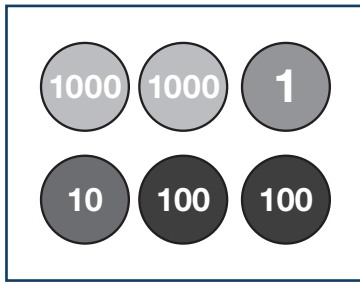
Complete the table.

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

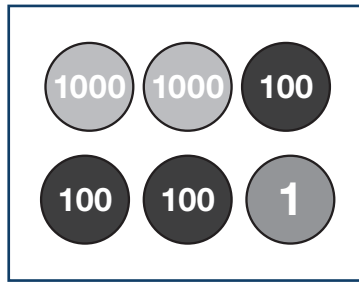
2 marks

9

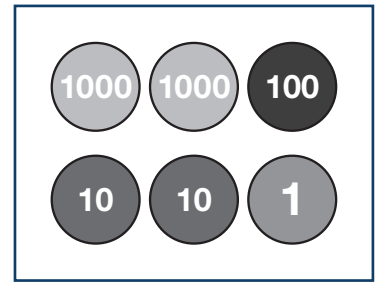
Sarah makes three 4-digit numbers.



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

2 marks

11

Complete the boxes.

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

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

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

3 marks

12

Seb says,



$$\frac{3}{10} + \frac{7}{10} \text{ is equal}$$
$$\text{to } \frac{5}{7} + \frac{2}{7}$$

Explain why Seb is correct.

1 mark

Complete the missing number.

$$\frac{13}{7} - \frac{4}{7} = 1 + \frac{\square}{7}$$

1 mark

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

A large grid for showing the method to solve the problem. A small box on the right side of the grid contains the letter 'm'.

2 marks

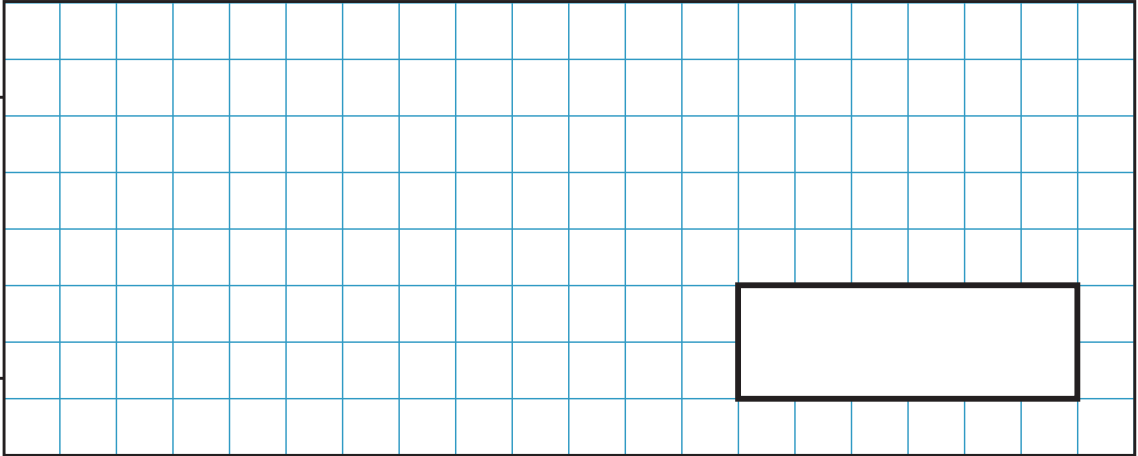
14

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.

$$7 \times \boxed{} = 4 \times 21$$

1 mark

16

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

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

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

6 chocolates in the box are dark chocolates.

What fraction of the box are dark chocolates?

Show
your
method

A 20x10 grid for showing the method. A rectangular box is drawn on the grid, spanning 6 units wide and 2 units high, representing the 6 dark chocolates mentioned in the problem.

1 mark

How many chocolates are there in the box altogether?

Show
your
method

A 20x10 grid for showing the method. A rectangular box is drawn on the grid, spanning 6 units wide and 2 units high, representing the 6 dark chocolates mentioned in the problem.

2 marks

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