2018 national curriculum tests

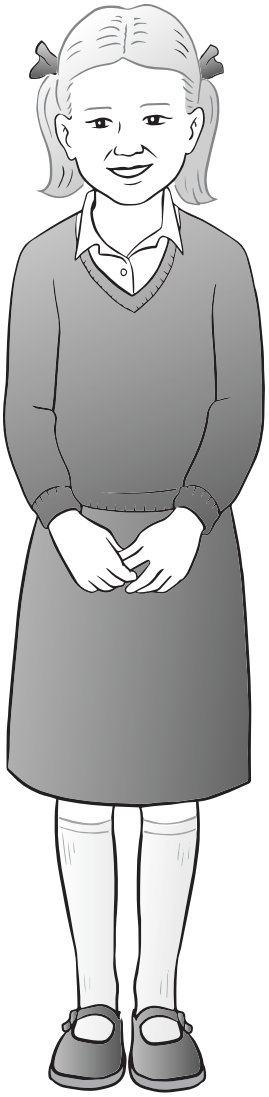
Key stage 1

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	

Total marks	

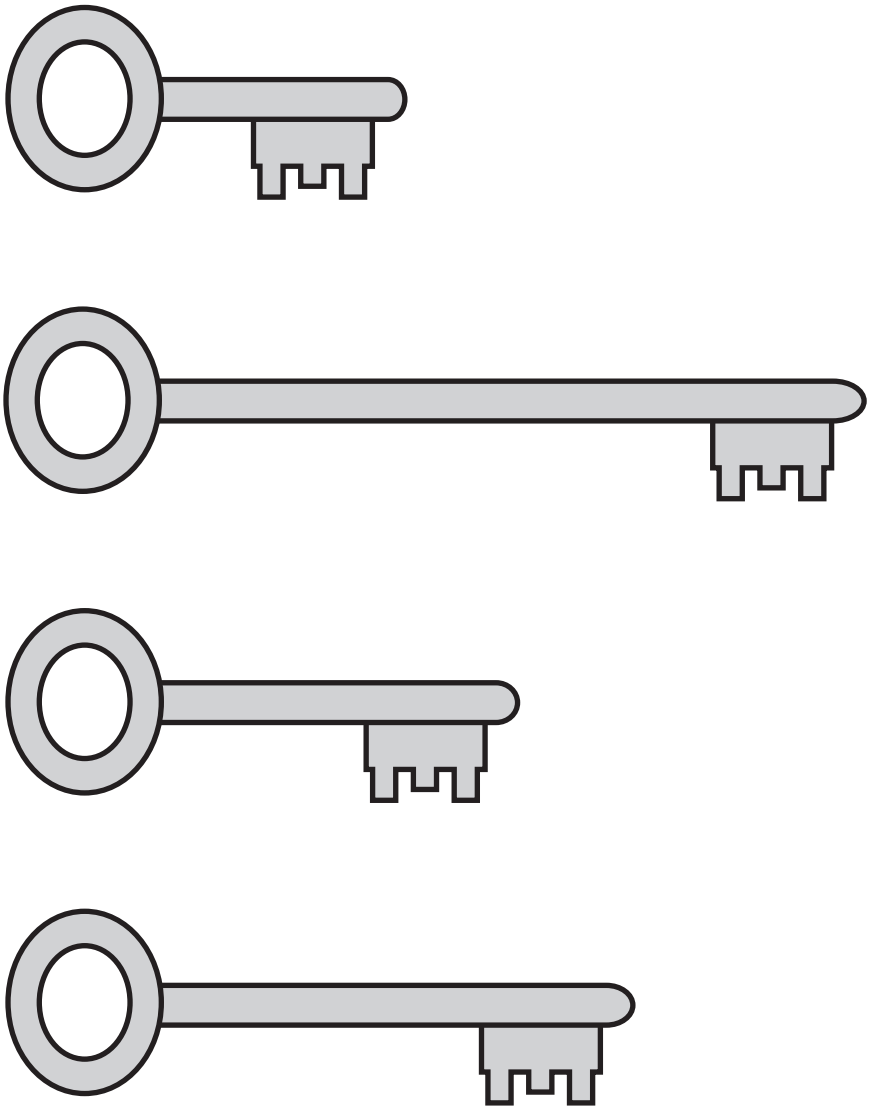


Amy

Ajay

Sam Ben Sita Kemi

Practice question



1

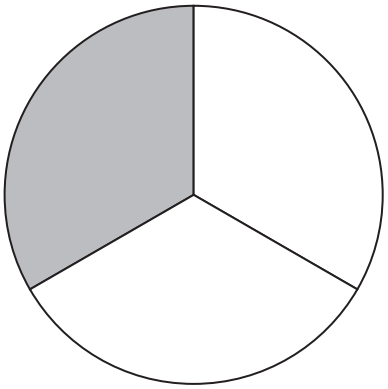
20 2 2

1 mark

2

1 mark

3



$\frac{1}{2}$ ☐ $\frac{1}{4}$ ☐

$\frac{1}{3}$ ☐ $\frac{3}{4}$ ☐

1 mark

4

13

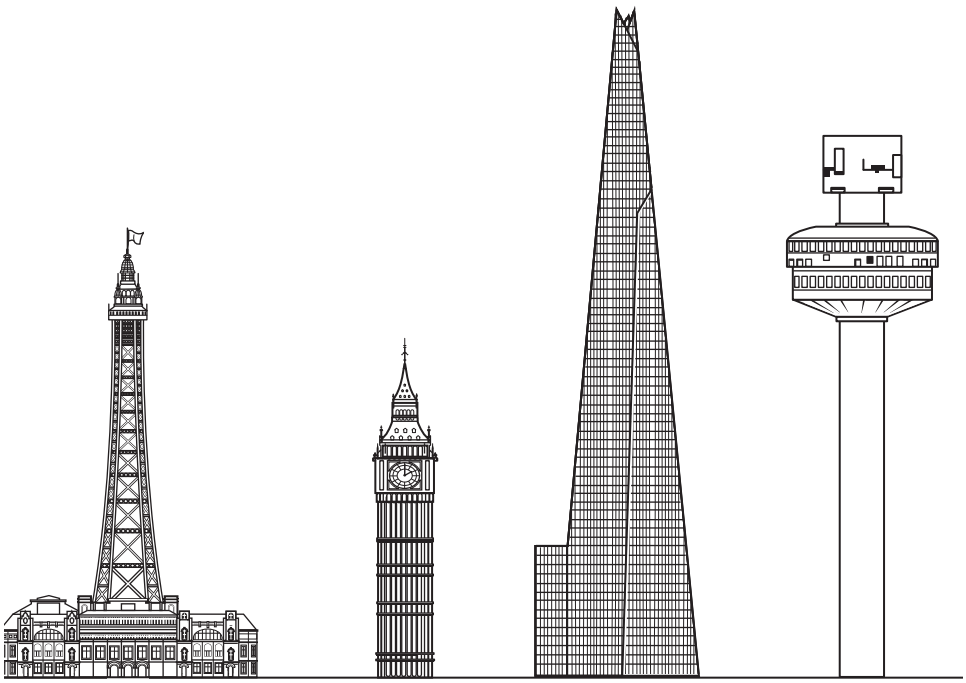
marbles

1 mark

5

1 mark

6



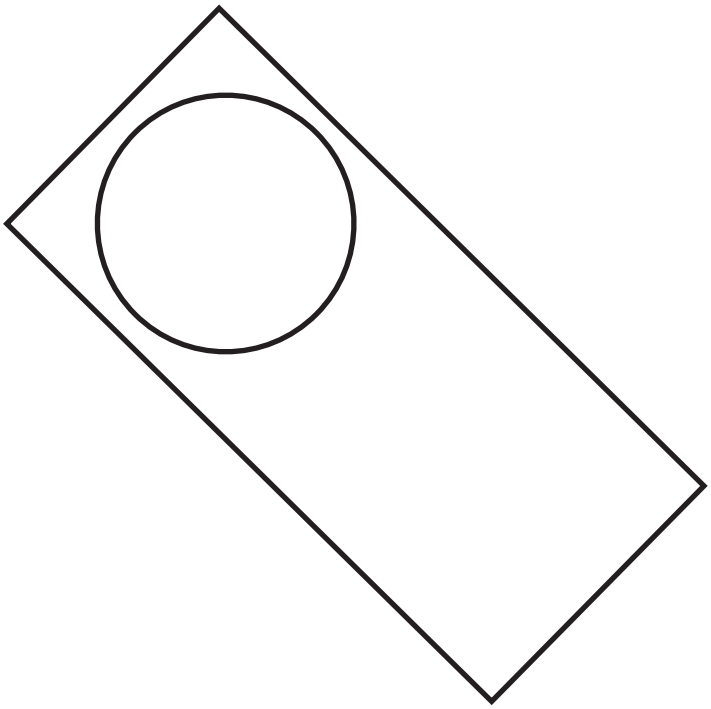
Put the four towers in order from **tallest** to **shortest**.

One is done for you.

	D		
tallest			**shortest**

1 mark

7



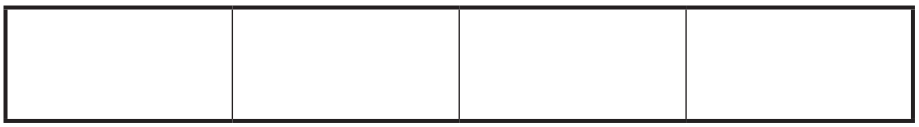
Tick the names of the **two** shapes in this picture.

Tick **two**.

- triangle ☐
- square ☐
- rectangle ☐
- circle ☐
- hexagon ☐

1 mark

8 Shade $\frac{3}{4}$ of this shape.

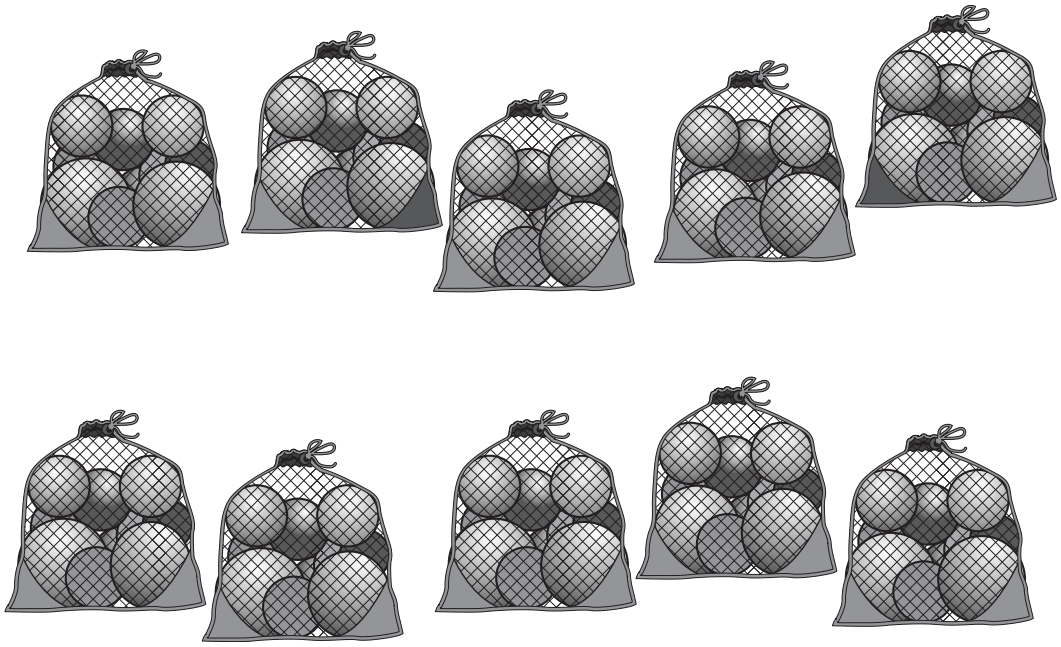


1 mark

9 Put a tick below the **fourth black bead**.

1 mark

10 Sita puts **10** balls in each bag.



How many balls are in the bags **altogether**?

balls

1 mark

11 Kemi goes to four clubs each week.

Which club lasts the **longest**?

Circle it.

Swimming 45 minutes	**Art** 2 hours
Music 75 minutes	**Drama** 1 hour

1 mark

12 Ajay's plant was **11** centimetres tall.

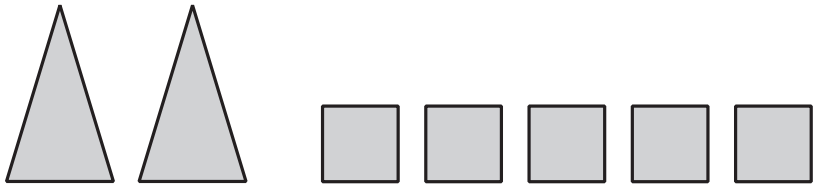
It grows **7** centimetres taller.

How tall is the plant now?

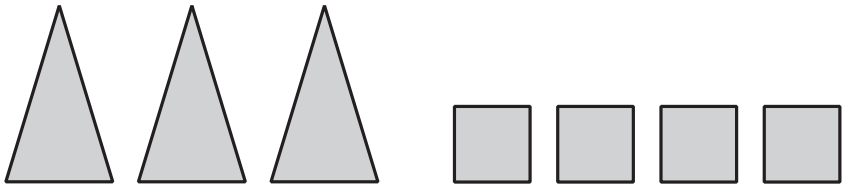
cm

1 mark

13 Amy makes **25** using different shapes for tens and ones.



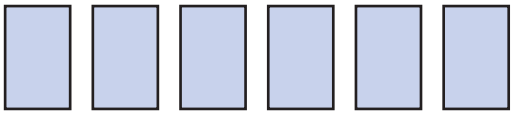
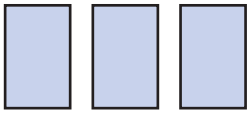
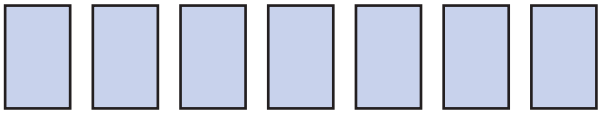
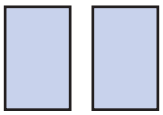
Amy makes a new number.



What is Amy's new number?

1 mark

14 The chart shows the number of stickers four children have.

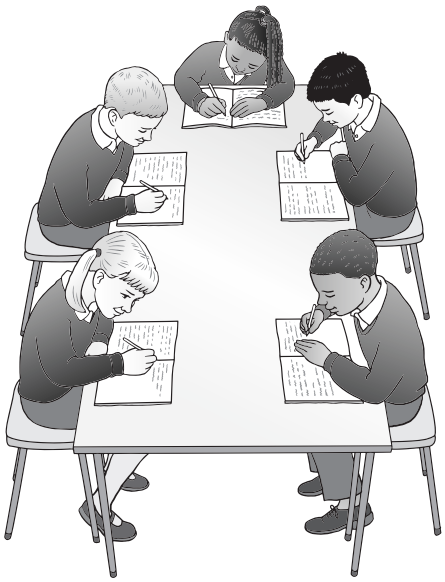
Kemi	
Amy	
Ben	
Sam	

Kemi has more stickers than Sam.

How many **more**?

1 mark

15



A classroom has **6** tables.

Each table has **5** children sitting at it.

Complete the number sentence to show how many children there are **altogether**.

$\square \times \square = \square$ children

1 mark

16

A shopkeeper has **20** fish and **5** fish bowls.

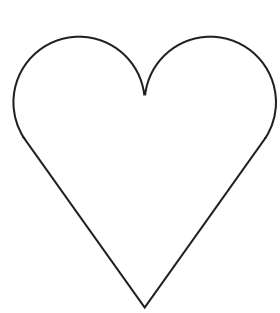
He puts the same number of fish in each bowl.

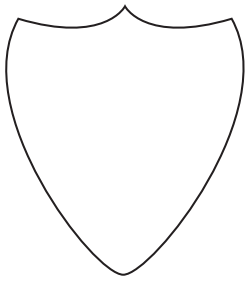
How many fish go in each bowl?

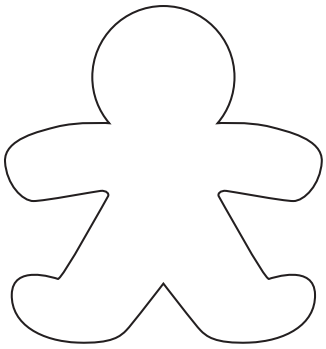
fish

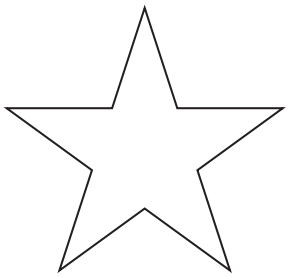
1 mark

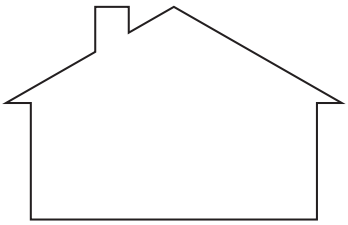
17 Tick the shape that does **not** have a line of symmetry.











1 mark

18 Ajay has **20p** in 2p coins.

How many 2p coins does Ajay have?

coins

1 mark

19

5	40	8

Use only these numbers to make a **different** number sentence each time.

One is done for you.

$5 \times 8 = 40$

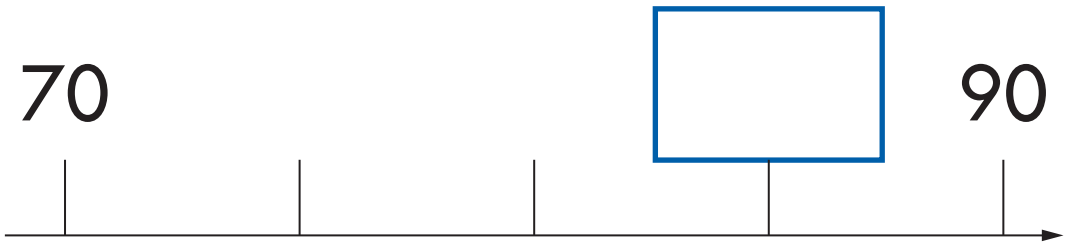
$\square \times \square = \square$

$\square \div \square = \square$

1 mark

20 Here is part of a number line.

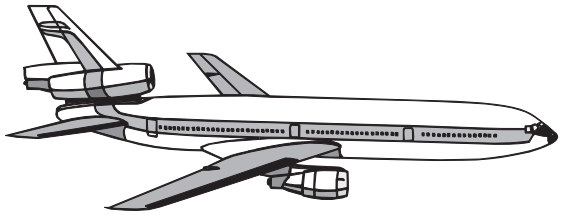
Write the correct number in the box.



1 mark

21 One plane lands every minute.

How many planes land in **1 hour**?



planes

1 mark

22 Use four **different** number cards to complete the number sentences below.

5	15	25	35	45	55

$\square + \square = 60$

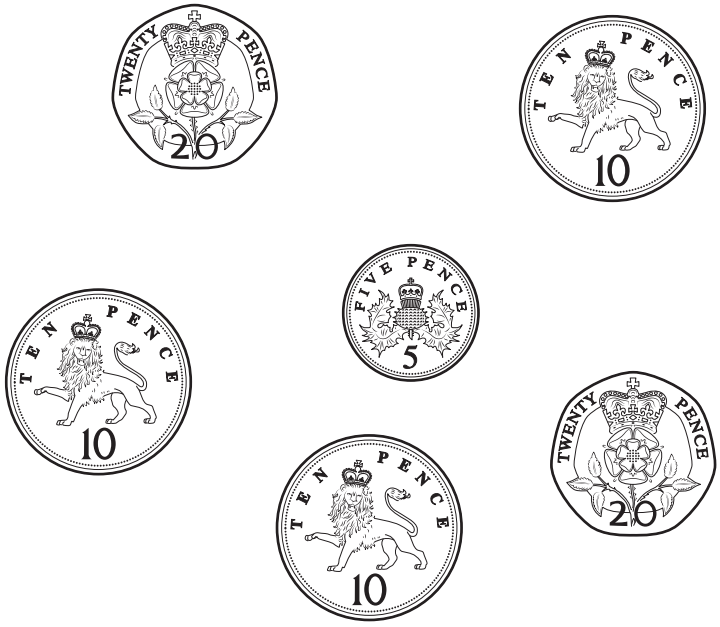
$\square + \square = 60$

2 marks

23 Sam has 55p.

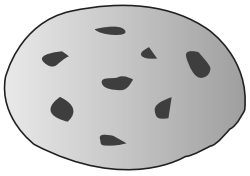
Ben has 10p less than Sam.

Tick the coins that **Ben** has.



1 mark

24



biscuits **20p** each	cakes **25p** each

Sam buys **3** biscuits and **1** cake.

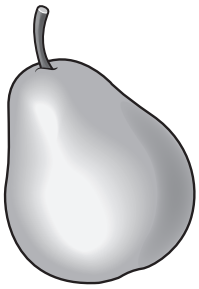
How much does Sam spend **altogether**?

Show your working

p

2 marks

25



35p

Amy buys **one** pear for 35p.

She pays with a 50p coin.

How much change does Amy get?

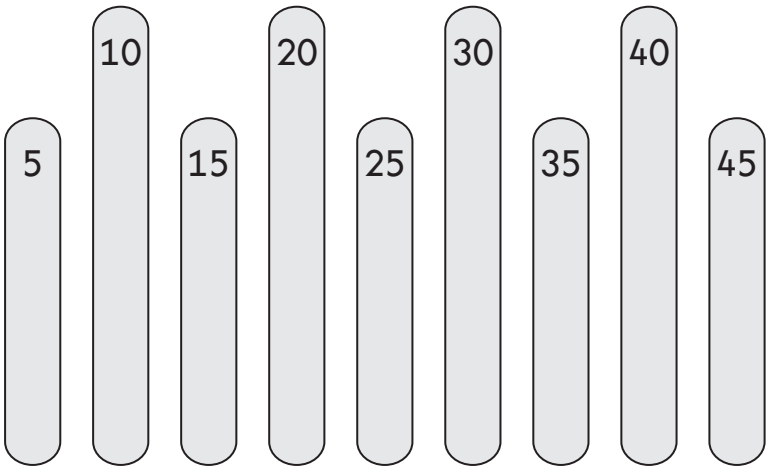
p

1 mark

26 Kemi makes a pattern with sticks.

Some are long and some are short.

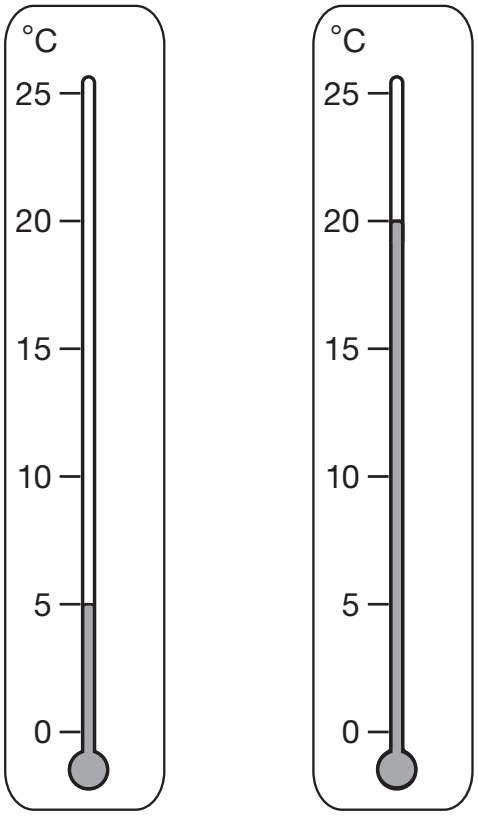
She writes a number pattern on the sticks.



Write the number that will be on the next **short** stick.

1 mark

27 Look at the thermometers.



playground **classroom**

The temperature on the playground is lower than the temperature in the classroom.

How much lower?

°C

1 mark

28 Write the **same** number in both boxes to make the sum correct.

$$\square + \square = 26$$

1 mark

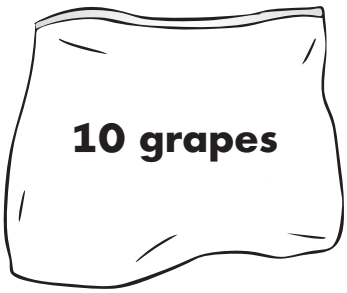
29 Draw a rectangle **7cm** long and **3cm** wide.

Use a ruler.

1 mark

30 Ben has **7** bags of grapes.

Each bag has **10** grapes.



Ben gives **25** grapes to his friends.

How many grapes does he have **left**?

Show your working

grapes

2 marks

31 Write the missing number in the box.

$$13 + 6 = 10 + \square$$

1 mark

32 Write two numbers that are **greater than 20** to make this subtraction correct.

$$\square - \square = 2$$

1 mark

End of test

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Standards & Testing Agency

2018 key stage 1 mathematics
Paper 2: reasoning
Print version product code: STA/18/7965/p ISBN: 978-1-78644-422-6
Electronic PDF version product code: STA/18/7965/e ISBN: 978-1-78644-638-1

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