

2025 national curriculum tests

Key stage 2

Mathematics

Paper 3: reasoning

MODIFIED LARGE PRINT

First name _____

Middle name _____

Last name _____

Date of birth **Day** _____ **Month** _____ **Year** _____

School name _____

DfE number _____

Note to markers

This paper should be marked using the standard mark schemes for KS2 Mathematics: Paper 3. There is additional guidance on marking some questions in this paper in the Key stage 2 Mathematics amendments to mark schemes – MLP document.

Instructions

You **must not** use a calculator to answer any questions in this test.

Questions and answers

You have **40** minutes, plus your additional time allowance, 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 any space on the page.

Method questions

Some questions say: 'Show your method.'
For these questions, you may get a mark for showing your method.

If you cannot do a question, 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.

- 1. Tick or mark the numbers that have 8 in the thousands place.**

84 623

28 436

683 052

8 325

608 231

**2. Tick or mark all the numbers
that are less than
one million and fifty thousand.**

1 400 000

1 049 900

1 060 000

1 030 900

3. There were 15 961 people at a football game.

Round 15 961 to the nearest hundred.

4. Jack buys 2 kilograms of pears.

He spends £3.28

What is the cost of one kilogram of pears?

£ _____

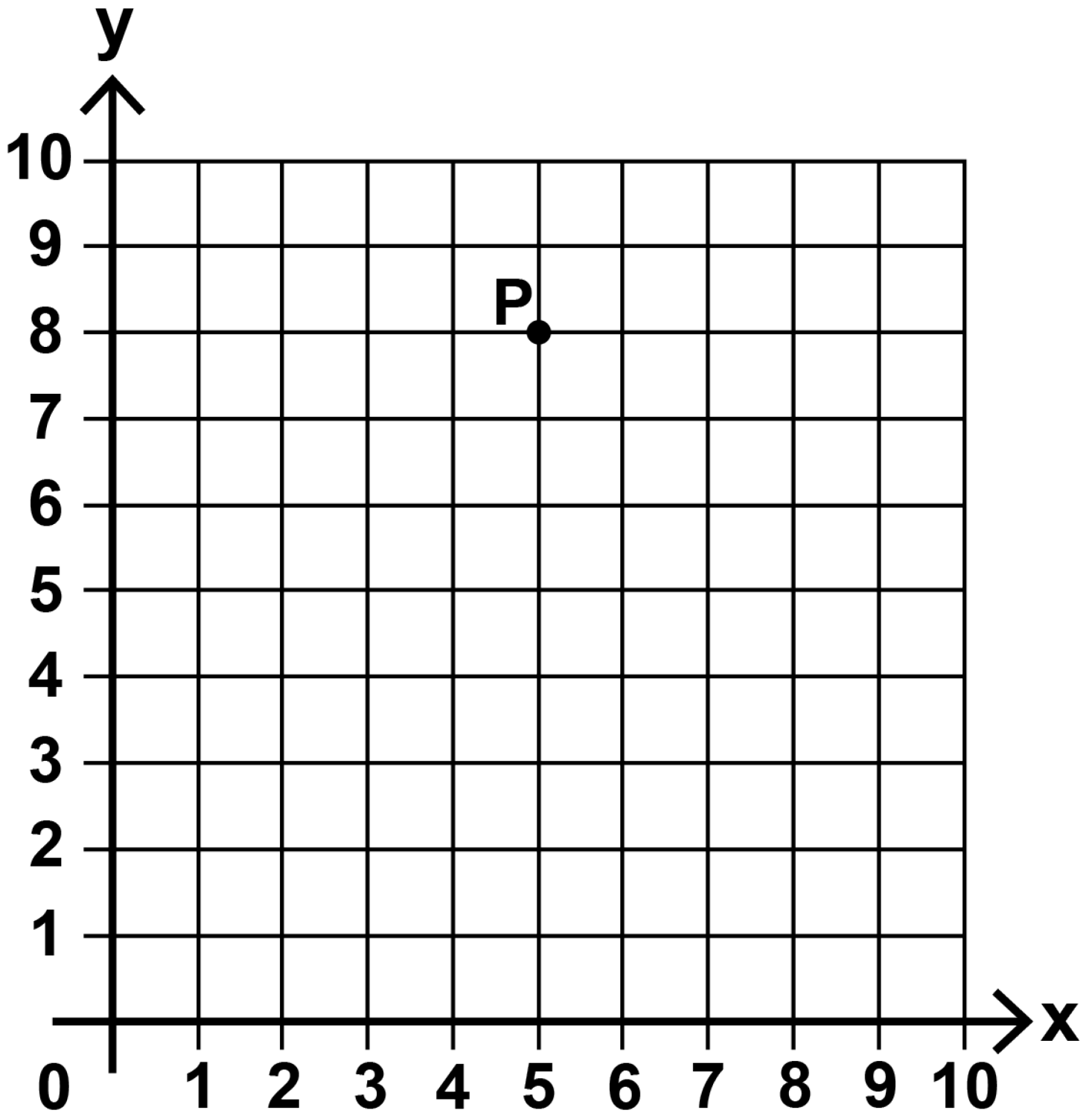
5. Look at the grid on the opposite page.

Point P is located at (5, 8) on the grid.

Point P is translated 4 units right, 6 units down and 2 units left.

What is the location of point P after the three translations?

(_____ , _____)



**6. The mass of an empty truck is
2 250 kilograms.**

It is then loaded with 8 boxes.

**The mass of each box is
25 kilograms.**

**What is the total mass of the truck
and its load?**

Show your method.

_____ kilograms

7. Draw **four lines** to match each improper fraction to its equivalent mixed number.

$$\frac{26}{4}$$

$$\frac{27}{5}$$

$$\frac{30}{4}$$

$$\frac{32}{5}$$

$$5\frac{2}{5}$$

$$4\frac{2}{5}$$

$$6\frac{2}{4}$$

$$4\frac{2}{4}$$

$$7\frac{2}{4}$$

$$6\frac{2}{5}$$

- 8. Ken buys three items.
The prices are shown below.**

Milk: 80p

Cereal: £2.50

Bread: £1.15

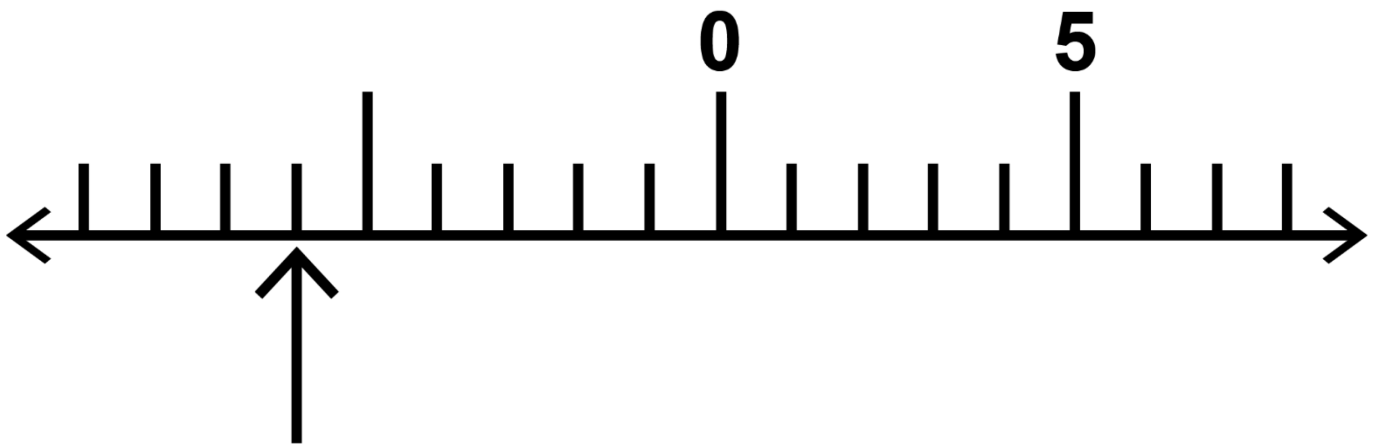
He pays with a £20 note.

How much change does Ken get?

Show your method.

£ _____

9. The diagram below shows part of a number line with one arrow.



- (a) Write the number that the arrow is pointing to.

- (b) Write the number that is 16 less than 7

10. The table on the opposite page shows some information about four animals in a zoo.

**Look at the four statements below.
Tick or mark the statements that are true.**

The elephant is exactly three times heavier than the rhino.

The hippo is a quarter of the height of the giraffe.

The rhino is 20 cm taller than the hippo.

The tallest animal is also the heaviest.

	Mass	Height
Elephant	6 300 kg	3.4 m
Hippo	1 100 kg	1.5 m
Rhino	2 400 kg	1.7 m
Giraffe	1 200 kg	6.0 m

- 11. Look at the four number sentences below.**

Tick or mark the number sentence that is correct.

$$0.304 = \frac{4}{10} + \frac{3}{1000}$$

$$0.43 = \frac{43}{1000}$$

$$0.403 = \frac{4}{10} + \frac{3}{1000}$$

$$0.034 = \frac{3}{10} + \frac{4}{1000}$$

[BLANK PAGE]

The test continues on the next page.

12. Look at the six digital times below.

12:35

04:05

21:45

07:20

22:45

19:20

**Write the digital time from the list
that is equivalent to each written time
on the opposite page.**

One has been done for you.

five past 4 in the morning

04:05

(a) 25 minutes to 1 in the afternoon

(b) 20 minutes past 7 in the morning

(c) quarter to 11 in the evening

13. Write these numbers in order, starting with the least.

$$\frac{9}{100}$$

0.999

$$\frac{99}{100}$$

0.009

least

14. Look at this expression.

$$y + 4$$

- (a) Tick or mark the value for y that gives a prime number value for $y + 4$**

$$y = 8$$

$$y = 9$$

$$y = 10$$

- (b) Tick or mark the value for y that gives a square number value for $y + 4$**

$$y = 5$$

$$y = 6$$

$$y = 7$$

- 15. A factory makes T-shirts and dresses.
They pack them in boxes.**

There are 50 T-shirts in a box.

- (a) How many T-shirts are there in
250 boxes?**

There are 40 dresses in a box.

- (b) How many boxes are needed
for 3 000 dresses?**

[BLANK PAGE]

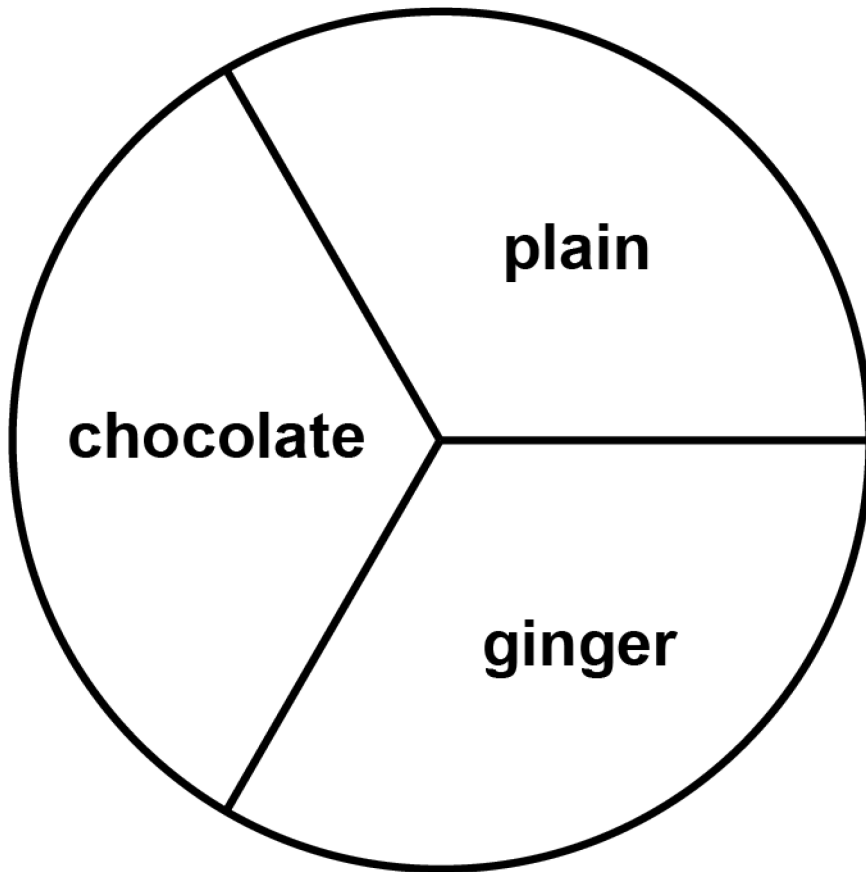
The test continues on the next page.

16. Look at the two pie charts on the opposite page. The pie charts show the biscuits in two tins.

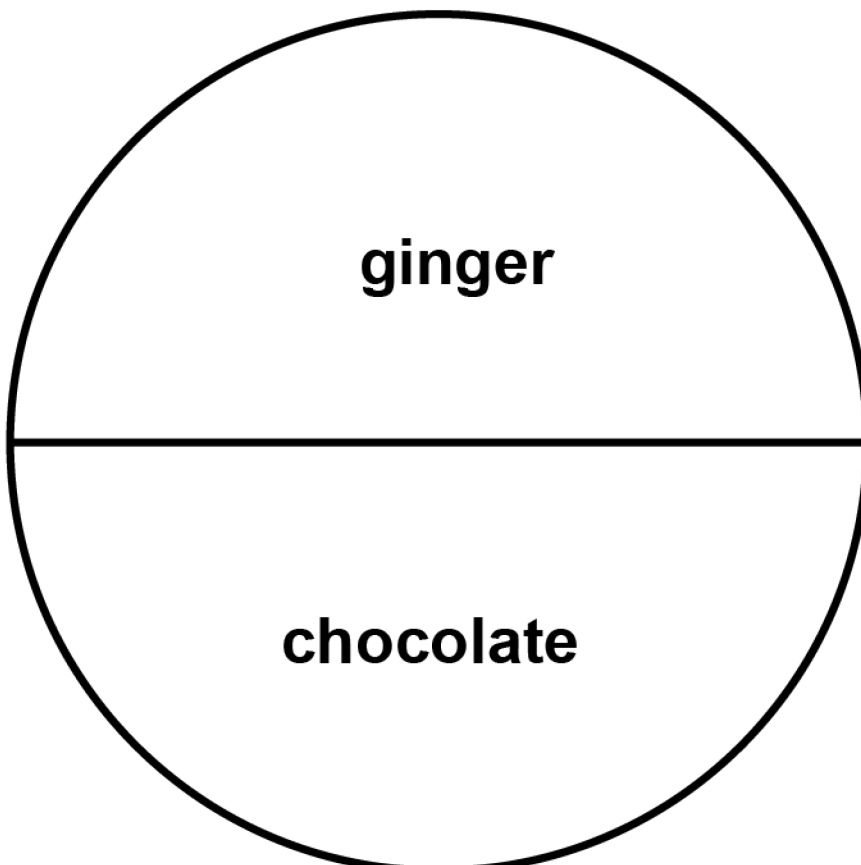
Tin B has more chocolate biscuits than Tin A.

Explain why this is incorrect.

Tin A has 36 biscuits.



Tin B has 20 biscuits.



17. A shop buys 35 boxes of crisps.

Each box contains 48 packets of crisps.

On average, the shop sells 56 packets of crisps each day.

How many days will it take for all of the crisps to be sold?

Show your method.

_____ days

18. (a) Convert 5.65 km to metres.

_____ m

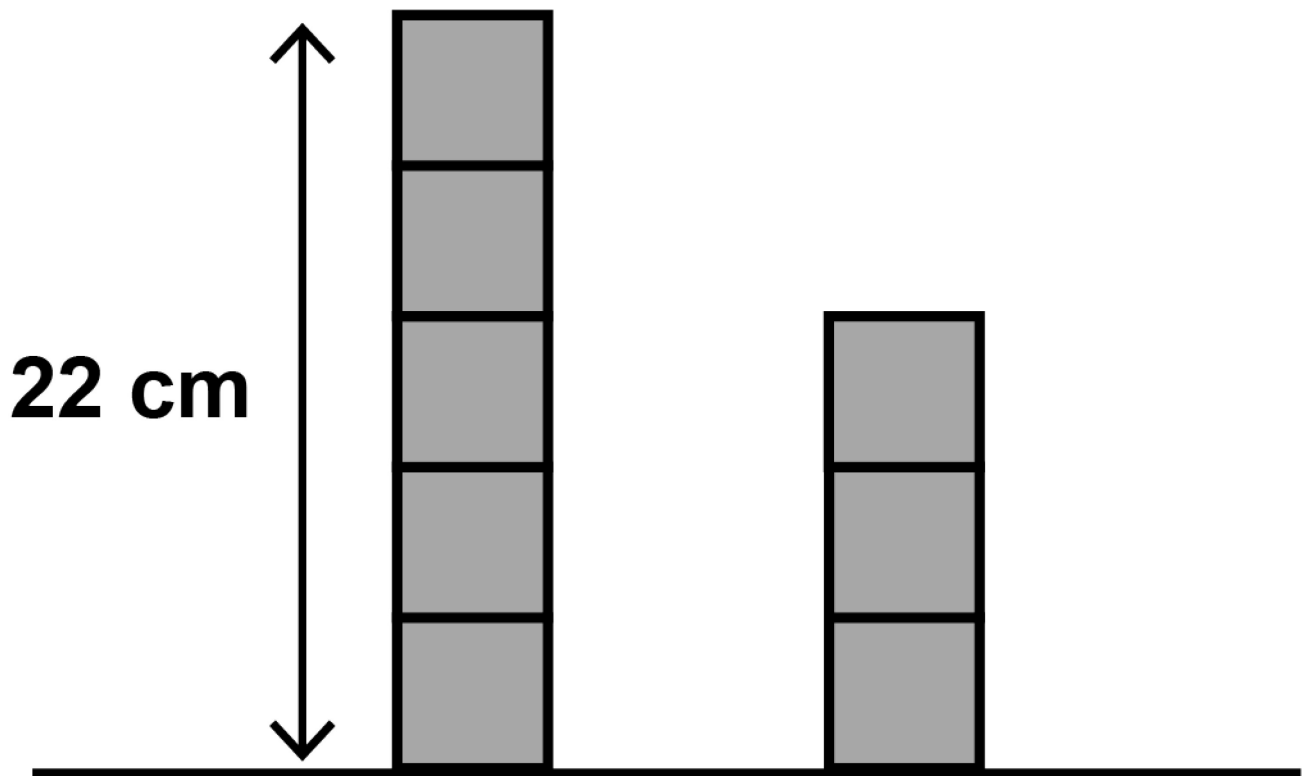
(b) Convert 35.5 cm to metres.

_____ m

- 19. Jacob has some wooden blocks that are all the same size.**

He uses the blocks to make two towers.

Not actual size



**The height of the taller tower is
22 centimetres.**

**What is the height of the
smaller tower?**

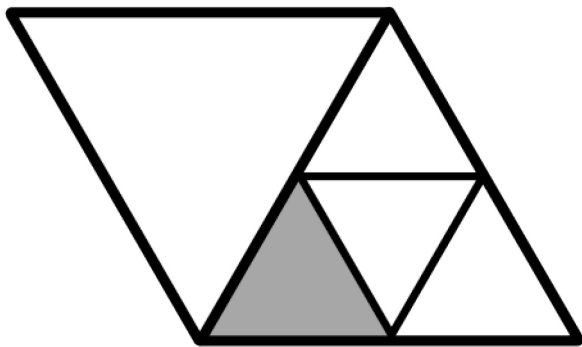
Show your method.

_____ cm

20. The shape below is made from two large equilateral triangles.

One of the large triangles is divided into four smaller equilateral triangles.

One of the smaller triangles is shaded.



What fraction of the whole shape is shaded?

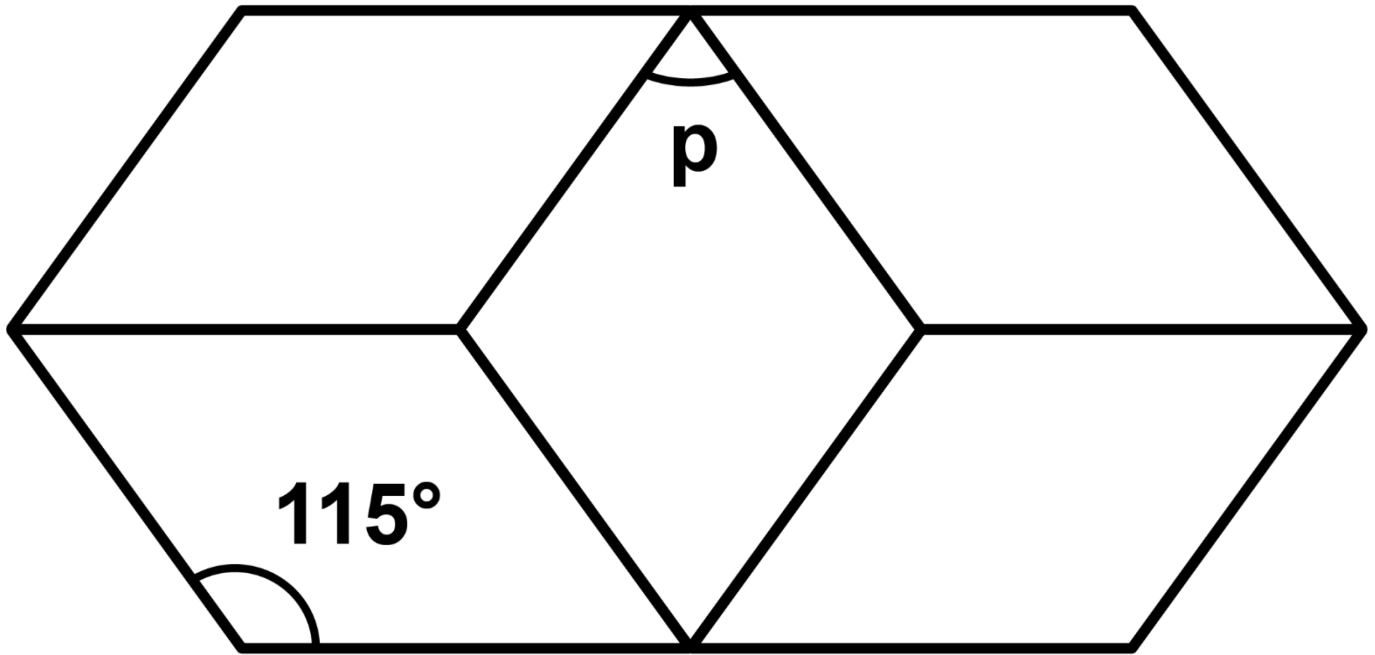
21. Here is some information about a number:

- **It has two digits**
- **It is a multiple of 7**
- **One of the digits is 8**

Write all the possible numbers that the number could be.

22. This diagram shows four identical parallelograms and a rhombus.

Not to scale



Calculate the size of angle p .

Show your method.

○

End of test

[BLANK PAGE]

[BLANK PAGE]

Key stage 2 mathematics
Modified large print Paper 3: reasoning

Print version product code: STA/25/8919/MLp ISBN: 978-1-83507-293-6
Electronic PDF version product code: STA/25/8919/MLe ISBN: 978-1-83507-307-0

For more copies

Additional copies of this modified large print test paper can be ordered by contacting the national curriculum assessments helpline on 0300 303 3013. After the test window, it can be downloaded from www.gov.uk/government/collections/national-curriculum-assessments-past-test-materials.

© Crown copyright

The materials in this booklet are Crown copyright. You may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0, which can be found on the National Archives website and accessed via the following link: www.nationalarchives.gov.uk/doc/open-government-licence.



If you have any queries regarding these test materials, please contact the national curriculum assessments helpline on 0300 303 3013 or email assessments@education.gov.uk.