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

1. 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

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

Round 15 961 to the   
nearest hundred.

1. Jack buys 2 kilograms of pears.

He spends £3 • 28

What is the cost of one kilogram of pears?

£

1. 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?

**( , )**

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Description automatically generated with medium confidence

1. 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

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

|  |
| --- |
| **2** |
| **5** |

|  |
| --- |
| **2** |
| **4** |

|  |
| --- |
| **2** |
| **4** |

|  |
| --- |
| **2** |
| **4** |

|  |
| --- |
| **2** |
| **5** |

|  |
| --- |
| **32** |
| **5** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1 23** | |  | | **5** | |
|  | |  | |  | |
| **1 23** | |  | | **4** | |
|  | |  | |  | |
| **1 23** | |  | | **6** | |
|  | |  | |  | |
| **1 23** | |  | | **4** | |
|  | |  | |  | |
| **1 23** | |  | | **7** | |
|  | |  | |  | |
| **1 23** | |  | | **6** | |

|  |
| --- |
| **2** |
| **5** |

|  |
| --- |
| **30** |
| **4** |

|  |
| --- |
| **27** |
| **5** |

|  |
| --- |
| **26** |
| **4** |

1. 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.

£

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

A black background with a black square

Description automatically generated with medium confidence

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

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

1. 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** |

1. Look at the four number sentences below.

Tick or mark the number sentence that is correct.

|  |
| --- |
| **3** |
| **1000** |

0 • 304 = +

|  |
| --- |
| **4** |
| **10** |

0 • 43 =

|  |
| --- |
| **43** |
| **1000** |

|  |
| --- |
| **3** |
| **1000** |

0 • 403 = +

|  |
| --- |
| **4** |
| **10** |

|  |
| --- |
| **4** |
| **1000** |

0 • 034 = +

|  |
| --- |
| **3** |
| **10** |

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The test continues on the next page.

1. 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.

For example,

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

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

|  |
| --- |
| **99** |
| **100** |

|  |
| --- |
| **9** |
| **100** |

0 • 999 0 • 009

least

1. Look at this expression.

y + 4

1. Tick or mark the value for y that gives a prime number value for y + 4

y = 8 y = 9 y = 10

1. Tick or mark the value for y that gives a square number value for y + 4

y = 5 y = 6 y = 7

1. A factory makes T–shirts and dresses. They pack them in boxes.

There are 50 T–shirts in a box.

1. How many T–shirts are there in 250 boxes?

There are 40 dresses in a box.

1. How many boxes are needed for 3 000 dresses?

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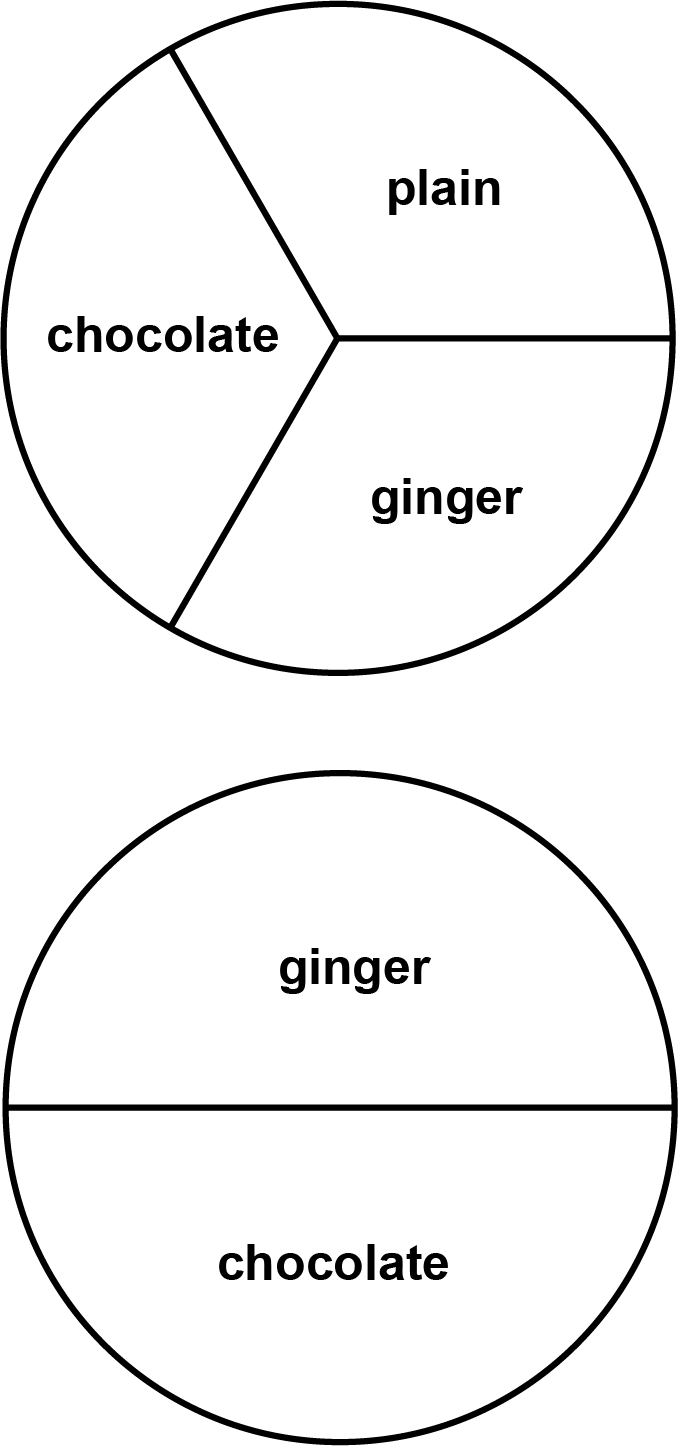
The test continues on the next page.

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

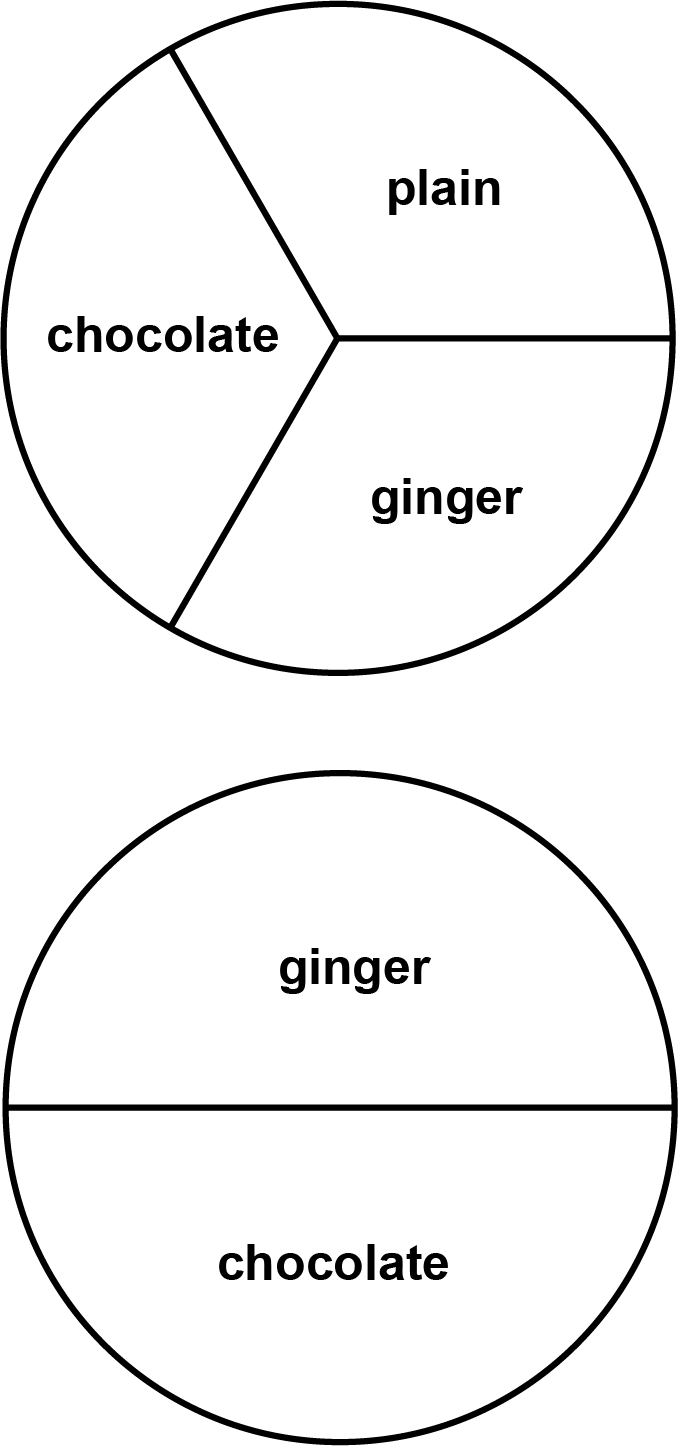
Tin B has more chocolate biscuits than Tin A.

Explain why this is incorrect.

Tin A has 36 biscuits.



Tin B has 20 biscuits.



1. 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

1. (a) Convert 5 • 65 km to metres.

m

(b) Convert 35 • 5 cm to metres.

m

1. Jacob has some wooden blocks that are all the same size.

He uses the blocks to make   
two towers.

Not actual size

A black background with grey squares

Description automatically generated

The height of the taller tower is   
22 centimetres.

What is the height of the   
smaller tower?

Show your method.

cm

1. 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.

A white triangle with a black background

Description automatically generated

What fraction of the whole shape   
is shaded?

1. 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.

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

Not to scale

A black background with a black square

Description automatically generated with medium confidence

Calculate the size of angle p.

Show your method.

°

End of test

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Key stage 2 mathematics   
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