

2024 national curriculum tests

# Key stage 2

## Mathematics

### Paper 1: arithmetic

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DfE number						



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## Instructions

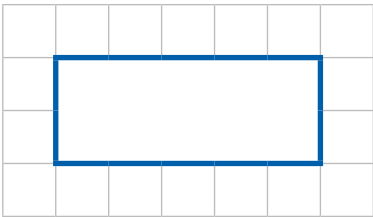
You **must not** use a calculator to answer any questions in this test.

### Questions and answers

You have **30 minutes** to complete this test.

Work as quickly and as carefully as you can.

Put your answer in the box for each question.



All answers should be given as a single value.

For questions expressed as common fractions or mixed numbers, you should give your answer as a common fraction, a mixed number or a whole number as appropriate.

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**.

### Marks

The number under each box at the side of the page tells you the number of marks available for each question.

In this test, long division and long multiplication questions are worth **2 marks each**. You will be awarded **2** marks for a correct answer.

You may get **1** mark for showing a formal method.

All other questions are worth **1 mark each**.



**1**

$$689 + 38 =$$

1 mark

**2**

$$72 \div 3 =$$

1 mark

**3**

$$23 \times 6 =$$

1 mark



4

$$4,532 - 19 =$$

1 mark

5

$$3 \times 391 =$$

$$\begin{array}{r} 2 \times 3 \\ \hline 1173 \end{array}$$

1 mark

6

$$= 9,171 - 530$$

$$\begin{array}{r} 8641 \\ \hline \end{array}$$

1 mark



M 0 0 0 6 0 A 0 5 2 0

7

$6,600 \div 6 =$

1100

1 mark

8

$99 \times 10 \times 1 =$

1 mark

9

$7.68 + 13.493 =$

13.493  
7.680  
-----  
21.173

1 mark



10

$9 \times 752 =$

$$\begin{array}{r} + 752 \\ 9 \\ \hline 6768 \end{array}$$

1 mark

11

$640 \div 8 =$

$80$

1 mark

12

$= 357 - 89$

$$\begin{array}{r} 238 \\ - 89 \\ \hline 268 \end{array}$$

1 mark



13

$561 \div 3 =$

$$\begin{array}{r} 187 \\ \hline 3 \overline{) 561} \\ \underline{3} \phantom{0} \\ 26 \\ \underline{24} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

1 mark

14

$\frac{4}{6} \times \frac{1}{8} =$

1 mark

15

$\boxed{90} = 630 \div 7$

1 mark



16

$$6,020,070 = 6,000,000 + \boxed{20,070} + 70$$



1 mark

17

$$2,671 \times 1,000 =$$

$$2,671,000$$

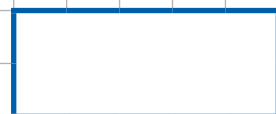


1 mark

18

$$\frac{5}{12} + \frac{1}{3} =$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12} = \frac{3}{4}$$



1 mark



M 0 0 0 6 0 A 0 9 2 0

19

$$\frac{2}{3} + \frac{4}{5} =$$

$$\frac{2 \times 5}{3 \times 5} = \frac{10}{15} + \frac{4 \times 3}{5 \times 3} = \frac{12}{15} = \frac{22}{15}$$

$$\frac{22}{15}$$

1 mark

20

$$\begin{array}{r} 6312 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 25248 \\ 63120 \\ \hline 88368 \end{array}$$

Show your method

2 marks



21

$$2 + 3^3 =$$

1 mark

22

$$15.5 \div 100 =$$

0.155

1 mark

23

$$90 - 56 \div 8 =$$

90 - 7 = 83

1 mark



24

63 - 5.8 =

$$\begin{array}{r} 12 \\ 5 \overline{) 63.0} \\ \underline{57} \phantom{0} \\ 63.0 \\ \underline{57} \phantom{0} \\ 60 \\ \underline{57} \\ 30 \\ \underline{28} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \end{array}$$

1 mark

25

x      4 1 8  
      4 7

Show your method

$$\begin{array}{r} 2926 \\ 16720 \\ \hline 19646 \end{array}$$

2 marks



**26**

$$\frac{6}{7} - \frac{11}{21} =$$

$$\frac{6 \times 3}{7 \times 3} = \frac{18}{21} - \frac{11}{21} = \frac{7}{21} = \frac{1}{3}$$

1 mark

**27**

$$\frac{7}{10} \div 2 =$$

$$\frac{7}{10} \times \frac{1}{2} = \frac{7}{20}$$

1 mark

**28**

$$2\frac{3}{8} - \frac{5}{8} =$$

$$\frac{19}{8} - \frac{5}{8} = \frac{14}{8} = \frac{16}{8}$$

1 mark



M 0 0 0 6 0 A 0 1 3 2 0

29

$0.7 \times 26 =$

$$\begin{array}{r} 26 \\ \times 0.7 \\ \hline 18.2 \end{array}$$

1 mark

30

$$\begin{array}{r} 29 \\ 34 \overline{) 986} \\ \underline{68} \phantom{0} \\ 306 \end{array}$$

$$\begin{array}{r} 34 \\ 3 \overline{) 306} \\ \underline{30} \phantom{0} \\ 6 \end{array}$$

Show your method

2 marks



**31**

99% of 600 =

$$1\% = 6$$

$$600 - 6 = 594$$

1 mark

**32** $\frac{1}{2} \div 3 =$ 

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

1 mark



M 0 0 0 6 0 A 0 1 5 2 0

**33**

43% of 900 =

$$10\% = 90 \times 4 = 360$$

$$1\% = 9 \times 3 = \frac{27}{387}$$

1 mark

**34** $2\frac{1}{6} - \frac{2}{3} =$ 

$$\frac{2}{3} = \frac{4}{6}$$

$$2\frac{1}{6} - \frac{4}{6}$$

$$1\frac{3}{6} - \frac{4}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$$

1 mark



35

$1\frac{1}{4} \times 39 =$

Handwritten work for question 35:

- $1 \times 39 = 39$
- $39 \times \frac{1}{4} = \frac{39}{4} = 9\frac{3}{4}$
- A box containing  $48\frac{3}{4}$

1 mark

36

Handwritten work for question 36:

- Initial numbers: 7 3 4 2 3 4
- Operations:  $0058$ ,  $273$ ,  $73$ ,  $73$ ,  $8$ ,  $6$ ,  $15$ ,  $365$ ,  $554$ ,  $438$ ,  $365$ ,  $584$
- A box for the final answer

Show your method

2 marks



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Standards  
& Testing  
Agency

2024 key stage 2 mathematics

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Print version product code: STA/24/8817/p ISBN: 978-1-83507-011-6

Electronic PDF version product code: STA/24/8817/e ISBN: 978-1-83507-032-1

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