

Practice National Curriculum Test

# Key stage 2

## Mathematics

Paper 1: arithmetic

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

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# Instructions

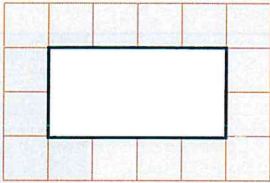
You **must not use a calculator** to answer any questions in this test.

## 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 answers as common fractions or mixed numbers.

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

$$46 + 785 =$$

$$\begin{array}{r} 785 + \\ 46 \\ \hline 820 \\ \hline 11 \end{array}$$

820



1 mark

2

$$3 \times 105 =$$

$$\begin{array}{l} 100 \times 3 = 100 \\ 5 \times 3 = 15 \end{array}$$

115



1 mark

3

$$\frac{5}{9} + \frac{2}{9} =$$

$$\frac{5}{9} + \frac{2}{9} = \frac{7}{18}$$

$$\frac{7}{18}$$


1 mark

4

$676 \times 0 =$

676



1 mark

5

$6 \times 5 \times 5 =$

$$\begin{aligned} 5 + 5 &= 10 \\ 6 \times 10 &= 60 \end{aligned}$$

60



1 mark

6

$108 \div 9 =$

$$\begin{array}{r} 000r9 \\ 9 \overline{) 108} \end{array}$$

r9



1 mark

7

$104.27 + 32.8 =$

$$\begin{array}{r} 104.27 + \\ \underline{32.8} \\ 107.47 \end{array}$$

107.47

1 mark

8

$7^2 - 20 =$

$$\begin{array}{l} 7^2 = 7 \times 7 = 49 \\ 49 - 20 = 29 \end{array}$$

29

1 mark

9

$8,107 - 198 =$

$$\begin{array}{r} 8107 - \\ \underline{198} \\ 8091 \end{array}$$

8091

1 mark

10

$$630 \div 7 =$$

$$\begin{array}{r} 630 \div 7 \\ 63 \div 7 = 9 \\ 630 \div 7 = 90 \end{array}$$

90



1 mark

11

$$2400 \div 8 =$$

$$\begin{array}{r} 2400 \div 8 \\ 0300 \\ 8 \overline{) 2400} \end{array}$$

300



1 mark

12

1137

$$+ 300 = 1,287$$

$$\begin{array}{r} 1287 - \\ 300 \\ \hline 1137 \end{array}$$



1 mark

13

$11 - 2.9 =$

$$\begin{array}{r} 0 \\ \sqrt{11} \\ \underline{2.9} \\ 0.3 \end{array}$$

0.3



1 mark

14

$2,004,050 = 2,000,000 +$

400

$+ 50$



1 mark

15

$840 \div 12 =$

$$\begin{array}{r} 070 \\ 12 \overline{)840} \\ \underline{84} \\ 0 \end{array}$$

12  
24  
36  
48  
60  
72  
84

70



1 mark

16

$$9,231 - 176 =$$

$$\begin{array}{r} 9\ 2\ 3\ 1 \\ - 1\ 7\ 6 \\ \hline 9\ 0\ 6\ 5 \end{array}$$

9065



1 mark

17

$$\frac{3}{5} + \frac{2}{15} =$$

$$\begin{array}{r} \frac{3}{5} + \frac{2}{15} \\ \downarrow \textcircled{\times 3} \\ \frac{9}{15} + \frac{2}{15} \end{array}$$

 $\frac{11}{15}$ 

1 mark

18

$$\frac{3}{5} \text{ of } 2000 =$$

$$2000 \div 5 = \cancel{400} 400$$

$$\begin{array}{r} 0\ 400 \\ 5 \overline{) 2000} \\ \underline{20} \phantom{00} \\ 0000 \end{array}$$

$$4\cancel{0}00 \times 3 = 1200$$

1200



1 mark

19

15% of 3,400 =

$$100\% = 3400$$

$$10\% = 340$$

$$5\% = 170$$

$$10\% + 5\%$$

$$340 + 170$$

$$= 510$$

510



1 mark

20

2.4 ÷ 1000 =

0 . t h th . . . .

2 . 4

0 . 0 0 2 4

0.0024



1 mark

21

$$\begin{array}{r} \phantom{x} \phantom{00} 529 \\ x \phantom{00} 34 \\ \hline \end{array}$$

Show  
your  
method

2 marks

22

3 2 5 4 4

Show  
your  
method


2 marks

23

$$\frac{2}{3} + \frac{1}{4} =$$

3 3 4 ... = 12  
times table..

$$\frac{2}{3} + \frac{1}{4}$$

↓x4     ↓x3

$$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$



1 mark

24

$$0.6 \times 54 =$$

$$\begin{array}{r} 0.6 \times \\ 54 \\ \hline 2.4 \\ 32.0 \\ \hline 32.4 \end{array}$$



1 mark

25

$$1\frac{3}{5} + \frac{2}{7} =$$

$$1\frac{3}{5} + \frac{2}{7}$$

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

$$\downarrow \times 7$$

$$\frac{35}{35} + \frac{21}{35}$$

$$1\frac{21}{35} + \frac{10}{35} = 1\frac{31}{35}$$

5 and 7 x table...

(35)

$$\rightarrow \frac{2}{7}$$

$$\downarrow \times 5$$

$$\frac{10}{35}$$

1 mark

26

$$2.7 \times 40 =$$

1 mark

27

$$8 - 5.002 =$$

$$\begin{array}{r} 8.000 \\ - 5.002 \\ \hline 2.998 \end{array}$$

1 mark