2025 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**.

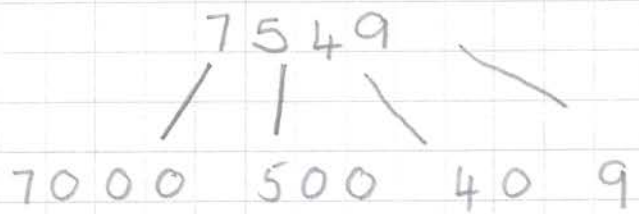
Marks

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 $7{,}549 = 7{,}000 + \boxed{500} + 40 + 9$



1 mark

2 $456 - 385 =$

$$\begin{array}{r} 3 \\ 4\,'5\,6 \\ -\,3\,8\,5 \\ \hline 0\,7\,1 \end{array}$$

$\boxed{71}$

1 mark

3 $\boxed{0} \times 233 = 0$

1 mark

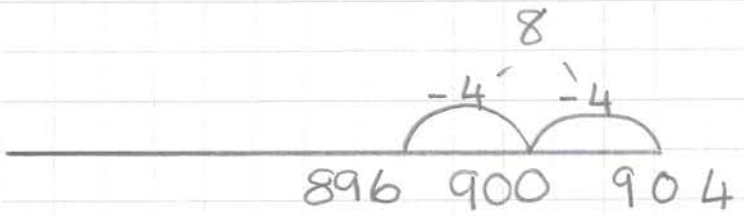
4 47.65 + 51.783 =

$$\begin{array}{r} 51.783 \\ +\ 47.650 \\ \hline 99.433 \\ {\scriptstyle 1\quad 1} \end{array}$$

99.433

1 mark

5 904 – 8 =



896

1 mark

6 84 ÷ 12 =

7 x 12 = 84

84 ÷ 12 = 7

7

1 mark

7 $6 \times 832 =$

$$\begin{array}{r} 832 \\ \times \quad 6 \\ \hline 4992 \\ {\scriptstyle 1\ 1} \end{array}$$

or

$$\begin{array}{r} 800 \times 6 = 4800 \\ 30 \times 6 = 180 \\ 2 \times 6 = 12 \\ \hline 4992 \end{array} +$$

4992

1 mark

8 $12 \times 3 \times 10 =$

$12 \times 3 = 36$

$36 \times 10 = 360$

360

1 mark

9 $326 + \boxed{54} = 380$

$$\begin{array}{r} {\scriptstyle 7} \\ 38{\scriptstyle 1}0 \\ -\ 326 \\ \hline 054 \end{array}$$

1 mark

10 $72 \div$ [8] $= 9$

$9 \times 8 = 72$

1 mark

11 $\frac{2}{5} \times \frac{5}{6} =$

$2 \times 5 = 10$ $\quad 5 \times 6 = 30$ $\quad = \frac{10}{30}$ or $\frac{1}{3}$

[$\frac{10}{30}$]

1 mark

12 $540 \div 6 =$

$$6 \overline{)540} \quad 090$$

[90]

1 mark

13 $807 \times 8 =$

$$\begin{array}{r} 807 \\ \times \quad 8 \\ \hline 6456 \\ 5 \end{array}$$

or

$800 \times 8 = 6400$
$0 \times 8 = 0$
$7 \times 8 = +56$
6456

6456

1 mark

14 Show your method

$$\begin{array}{r} 614 \\ \times \quad 32 \\ \hline 1228 \\ 18420 \\ \hline 19648 \end{array}$$

← Don't forget the place holder

19648

2 marks

15 2,000 ÷ 4 =

20 ÷ 4 = 5

2000 ÷ 4 = 500

500

1 mark

16 3 × 8.9 =

$$\begin{array}{r} 8.9 \\ \times \quad 3 \\ \hline 26.7 \\ 2 \end{array}$$

26.7

1 mark

17 326.8 ÷ 10 =

326.8

32.68

32.68

1 mark

18 $\frac{1}{3} - \frac{1}{9} =$

$\frac{1}{3} - \frac{1}{9}$

$\times 3$

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

$\frac{2}{9}$

1 mark

19 $896 \div 7 =$

$$7\overline{)896} = 128$$

128

1 mark

20 $1{,}004{,}235 - 52{,}346 =$

$$\begin{array}{r} 0\,9\,3\,1\,1\,2 \\ 1\,0\,0\,4\,2\,3\,5 \\ -\quad 5\,2\,3\,4\,6 \\ \hline 9\,5\,1\,8\,8\,9 \end{array}$$

951889

1 mark

21 $4{,}104 \div 9 =$

$$9\overline{)4105^{5}04} = 456$$

456

1 mark

22 $\frac{1}{6} + \frac{2}{3} + \frac{3}{12} =$

$\frac{1}{6} + \frac{2}{3} + \frac{3}{12}$

$\times 2 \rightarrow \frac{2}{12} + \frac{8}{12} + \frac{3}{12} = \frac{13}{12}$ or $1\frac{1}{12}$

$1\frac{1}{12}$

1 mark

23 $17 - 3.6 =$

$$\begin{array}{r} {}^{6} \\ 17.^{1}0 \\ -\ 3.6 \\ \hline 13.4 \end{array}$$

13.4

1 mark

24 $2\frac{3}{5} + 1\frac{3}{5} =$

$2\frac{3}{5} + 1\frac{3}{5} = 3\frac{6}{5}$ or $4\frac{1}{5}$

$4\frac{1}{5}$

1 mark

25 5% of 860 =

10% of 860 = 86 (860 ÷ 10)
5% of 860 = 43 (86 ÷ 2)

43

1 mark

26 $\frac{5}{8} \div 3 =$

$\frac{5}{8} \div 3 = \frac{5}{8} \times \frac{1}{3} = \frac{5}{24}$

$\frac{5}{24}$

1 mark

27 19% of 2,300 =

10% of 2300 = 230 (2300 ÷ 10)
1% of 2300 = 23 (2300 ÷ 100)

$$\begin{array}{r} {}^{2}\not{2}\not{3}0 \\ -\ 23 \\ \hline 207 \end{array} \qquad \begin{array}{r} 230 \\ +\ 207 \\ \hline 437 \end{array}$$

9% 19%

437

1 mark

28

$$17\overline{)884} = 52$$

$$\begin{array}{r} 052 \\ -\ 85\downarrow \\ \quad 34 \end{array}$$

17
34
51
68
85

Show your method

52

2 marks

29 $2\frac{1}{6} + \frac{2}{5} =$

Find a common denominator.

$2\frac{1}{6} + \frac{2}{5} =$

$\times 5$ $\times 6$

$2\frac{5}{30} + \frac{12}{30} = 2\frac{17}{30}$

$2\frac{17}{30}$

1 mark

30 Show your method

$$\begin{array}{r} 6419 \\ \times \quad 74 \\ \hline 25676 \\ 449330 \\ \hline 475006 \\ \hline \end{array}$$

Remember your place holder

475006

2 marks

31 $(5^2 + 3) - 12 \div 4 =$

BIDMAS

$5^2 = 25$

$25 + 3 = 28$

$12 \div 4 = 3$

$28 - 3 = 25$

25

1 mark

32 65% of 540 =

10% of 540 = 54 (540 ÷ 10)
50% of 540 = 270 (540 ÷ 2)
5% of 540 = 27 (54 ÷ 2)

$$\begin{array}{r} 270 \\ + \quad 54 \\ \quad\ 27 \\ \hline 351 \\ {\scriptstyle 1\ 1} \end{array}$$

351

1 mark

33 $3\frac{1}{3} \times 12 =$

$3\frac{1}{3} \times 12$

$\frac{10}{3} \times \frac{12}{1} = \frac{120}{3} = 40$

40

1 mark

34

Show your method

$$\begin{array}{r} 0182 \\ 45\overline{)8190} \\ -45 \\ \hline 3690 \\ -360 \\ \hline 90 \\ -90 \\ \hline 0 \end{array}$$

45
90
135
180
225
270
315
360

182

2 marks

35 $\frac{3}{8} \times 240 =$

$\frac{3}{8} \times 240$ $\quad$ $8\overline{)720}$ $\quad$ 090

$\downarrow$

$\frac{3}{8} \times \frac{240}{1} = \frac{720}{8} = 90$

90

1 mark

36 $4\frac{3}{7} - 1\frac{1}{6} =$

$4\frac{3}{7} - 1\frac{1}{6} = 3\frac{3}{7} - \frac{1}{6}$

$\times 6$ $\quad$ $\times 7$

$4\frac{18}{42} - 1\frac{7}{42} = 3\frac{11}{42}$

$3\frac{11}{42}$

1 mark

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Standards & Testing Agency

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