

2019 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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1

$$\boxed{6090} = 6,000 + 90$$

$$\begin{array}{r} 6000 \\ + 90 \\ \hline 6090 \end{array}$$



1 mark

2

$$\boxed{8357} = 8,275 + 82$$

$$\begin{array}{r} 8275 \\ + 82 \\ \hline 8357 \end{array}$$



1 mark

3

$$826 = 800 + \boxed{20} + 6$$

$$\begin{array}{r} 826 \\ \swarrow \quad \downarrow \quad \searrow \\ 800 \quad 20 \quad 6 \end{array}$$



1 mark



4

$$\boxed{336} + 5 = 341$$

$$\begin{array}{r} 3 \\ 341 \\ - \quad 5 \\ \hline 336 \end{array}$$

1 mark

5

$$9 \times 41 =$$

$$\begin{array}{r} 41 \\ \times 9 \\ \hline 369 \end{array}$$

$$\boxed{369}$$

1 mark

6

$$5.87 + 3.123 =$$

$$\begin{array}{r} 3.123 \\ + 5.870 \\ \hline 8.993 \end{array}$$

$$\boxed{8.993}$$

1 mark



H 0 0 0 6 0 A 0 5 2 0

7

$180 \div 3 =$

$$\begin{array}{r} 60 \\ 3 \overline{) 180} \end{array}$$

60

1 mark

8

$120 \div 12 =$

$$\begin{array}{r} 10 \\ 12 \overline{) 120} \end{array}$$

10

1 mark

9

$213 \times 0 =$

$$\begin{array}{r} 213 \\ \times \quad 0 \\ \hline 000 \end{array}$$

Any number multiplied  
by 0 is 0.

0

1 mark



10

$$91 \div 7 =$$

$$\begin{array}{r} 13 \\ 7 \overline{)91} \end{array}$$

13

1 mark

11

$$\boxed{22} = 87 - 65$$

$$\begin{array}{r} 87 \\ - 65 \\ \hline 22 \end{array}$$

1 mark

12

$$602 - \boxed{8} = 594$$

$$\begin{array}{r} 59 \\ \cancel{6} \cancel{0} 2 \\ - 594 \\ \hline 008 \end{array}$$

1 mark



H 0 0 0 6 0 A 0 7 2 0

13

$$1,210 \div 11 =$$

$$\begin{array}{r} 110 \\ 11 \overline{) 1210} \\ \underline{11} \phantom{0} \\ 10 \\ \underline{11} \\ 0 \end{array}$$

110



1 mark

14

$$25.34 \times 10 =$$

$$\begin{array}{r} 25.34 \\ \times 10 \\ \hline 253.4 \end{array}$$

253.4



1 mark

15

$$60 \div (30 - 24) =$$

$$30 - 24 = 6$$

$$60 \div 6 = 10$$

Remember the  
correct order of  
operations eg.  
BODMAS

10



1 mark





**16**

$3^3 =$

$3^3 = 3 \times 3 \times 3$

$3^3 = 9 \times 3$

$3^3 = 27$

  
1 mark**17**

$101 \times 1,000 =$

$101 \times 1000 = 101000$

  
1 mark**18**

$20\% \text{ of } 3,000 =$

$3000 \div 10 = 300$

$10\% = 300$

$2 \times 300 = 600$

$20\% = 600$

  
1 mark

H 0 0 0 6 0 A 0 9 2 0

19

$7 - 2.25 =$

$$\begin{array}{r}
 6 \quad 9 \\
 7.00 \\
 - 2.25 \\
 \hline
 4.75
 \end{array}$$

4.75



1 mark

20

$0.9 \div 100 =$

$$\begin{array}{r}
 0.9 \\
 \xrightarrow{\quad \quad \quad} \\
 0.009
 \end{array}$$

0.009



1 mark

21

$9 - 1.9 =$

$$\begin{array}{r}
 8 \\
 9.0 \\
 - 1.9 \\
 \hline
 7.1
 \end{array}$$

7.1



1 mark





24

$$\frac{1}{5} + \frac{3}{4} =$$

$$\frac{1 \times 4}{5 \times 4} + \frac{3 \times 5}{4 \times 5}$$

$$\frac{4}{20} + \frac{15}{20} = \frac{19}{20}$$

Find a common denominator eg.  
20.

$$\frac{19}{20}$$



1 mark

25

$$\begin{array}{r} 37. \\ - 74. \\ \hline 148 \\ - 148 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 37. \\ 74. \\ 111. \\ 148. \\ \hline 24. \end{array}$$

Show  
your  
method

$$24$$



2 marks



26

$$1\frac{1}{5} + 2\frac{1}{10} =$$

$$1\frac{1^{\times 2}}{5^{\times 2}} + 2\frac{1}{10}$$

Find a common denominator  
e.g. 10

$$1\frac{2}{10} + 2\frac{1}{10} = 3\frac{3}{10}$$

$$3\frac{3}{10}$$

1 mark

27

$$35\% \text{ of } 320 =$$

$$10\% \text{ of } 320 = 320 \div 10 = 32$$

$$5\% \text{ of } 320 = 32 \div 2 = 16$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 96 \\ + 16 \\ \hline 112 \end{array}$$

$$112$$

1 mark

28

$$\frac{8}{9} - \frac{1}{4} =$$

$$\frac{8^{\times 4}}{9^{\times 4}} - \frac{1^{\times 9}}{4^{\times 9}}$$

$$\frac{32}{36} - \frac{9}{36} = \frac{23}{36}$$

$$\frac{23}{36}$$

1 mark



H 0 0 0 6 0 A 0 1 3 2 0

**29**

51% of 900 =

$$50\% \text{ of } 900 = 900 \div 2 = 450$$

$$1\% \text{ of } 900 = 900 \div 100 = 9$$

$$51\% \text{ of } 900 = 450 + 9$$

$$51\% \text{ of } 900 = 459$$

459



1 mark

**30**

$$\begin{array}{r} \phantom{00}3468 \\ \times \phantom{00}62 \\ \hline \end{array}$$

$$\phantom{00}6936$$

$$208080$$

$$215016$$

Remember to use a place holder.

Show your method

215016



2 marks



**31**  $\frac{2}{3} \div 3 =$

$\frac{2}{3} \div 3 = \frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$

$\frac{2}{9}$

1 mark

**32**  $2\frac{1}{2} - \frac{3}{4} =$

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

$2\frac{2}{4} - \frac{3}{4}$

$\frac{10}{4} - \frac{3}{4} = \frac{7}{4}$  or  $1\frac{3}{4}$

$1\frac{3}{4}$

1 mark







35

$$\frac{5}{6} \times 540 =$$

$$\begin{array}{r} 90 \\ 6 \overline{) 540} \end{array}$$

$$\begin{array}{r} 90 \\ \times 5 \\ \hline 450 \end{array}$$

450



1 mark

36

$$\begin{array}{r} 8381 \\ - 7470 \\ \hline 581 \\ - 581 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 831 \\ 1662 \\ 2493 \\ 3324 \\ 4155 \\ 4986 \\ 5817 \end{array}$$

$$\begin{array}{r} 712 \\ 830 \\ - 83 \\ \hline 747 \end{array}$$

Show  
your  
method

97



2 marks



H 0 0 0 6 0 A 0 1 7 2 0

**[END OF TEST]**

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