2019 national curriculum tests

# Key stage 2

## Mathematics

**Paper 1:** arithmetic

**1**

6090 = 6,000 + 90

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

1 mark

**2**

8357 = 8,275 + 82

$$\begin{array}{r} 8275 \\ +\quad\ 82 \\ \hline 8357 \\ \hline 1 \end{array}$$

1 mark

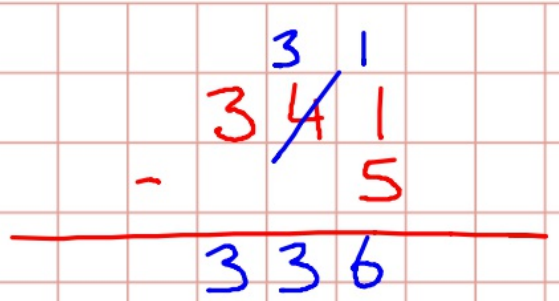
**3**

826 = 800 + 20 + 6

800
20
6
826

1 mark

**4** 336 + 5 = 341




1 mark

**5** $9 \times 41 =$

$9 \times 40 = 360$

$9 \times 1 = 9$

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

369

1 mark

**6** 5.87 + 3.123 =

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

8.993

1 mark

**7** $180 \div 3 =$

180 ÷ 3

18 ÷ 3 = 6

180 ÷ 3 = 60

$$\begin{array}{r} 060 \\ 3\overline{)180} \end{array}$$

60

1 mark

**8** $120 \div 12 =$

120 $12 \times 10 = 120$

$$12 \overline{)120} = 10$$

10

1 mark

**9** $213 \times 0 =$

213

1 mark

**10** $91 \div 7 =$

7
14
21

$$7\overline{)91}$$
$$13$$

13

1 mark

**11** 22 = 87 − 65

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

1 mark

**12** $602 - \boxed{8} = 594$

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

602 $\xrightarrow{-2}$ 600 $\xrightarrow{-6}$ 594 $= -8$

1 mark

**13** 1,210 ÷ 11 =

1210 ÷ 11 = 110

121 ÷ 11 = 11

11 × 11 = 121

$$11\overline{)1210}\quad 110$$

110

1 mark

**14** $25.34 \times 10 =$ 2534

253.4

1 mark

**15** $60 \div (30 - 24) =$

$30 - 24 = 6$

$60 \div 6 = 10$

10

1 mark

**16** $3^3 =$ 3 x 3 x 3

3 x 3 = 9

9 x 3 =

27

1 mark

**17** $101 \times 1{,}000 =$

101000.

left 3 places

101,000

1 mark

**18** 20% of 3,000 =

÷10 ↓ 100% = 3000
10% = 300

×2 ↓ 10% = 300
20% = 600

600

1 mark

**19** $7 - 2.25 =$

$7 - 2 = 5$

$5 - 0.25$

$$\begin{array}{r} 6\ \ 9\ 1 \\ 7.\not{0}\ 0 \\ 2.2\ 5 \\ \hline 4.7\ 5 \end{array}$$

4.75

1 mark

**20** $0.9 \div 100 =$

0.0009

Right 2 places

0.009

1 mark

**21** $9 - 1.9 =$

$9 - 1 = 8$

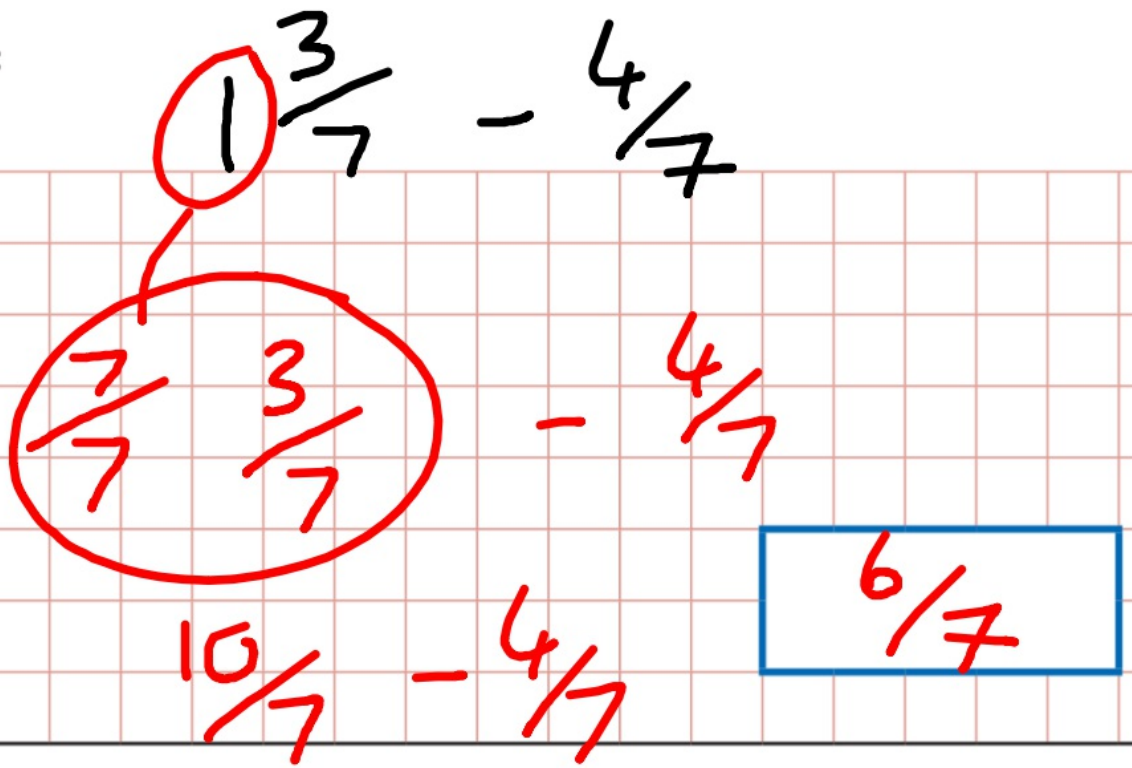
$8 - 0.9$

$$\begin{array}{r} 8\not{9}^{1}.{}^{1}0 \\ -\ 1.9 \\ \hline 7.1 \end{array}$$

7.1

1 mark

**22** $1\frac{3}{7} - \frac{4}{7} =$




1 mark

**23**

Show your method

$$\begin{array}{r} 836 \\ \times\ 27 \\ \hline 5852 \\ 16720 \\ \hline 22572 \\ \hline 1\ 1 \end{array}$$

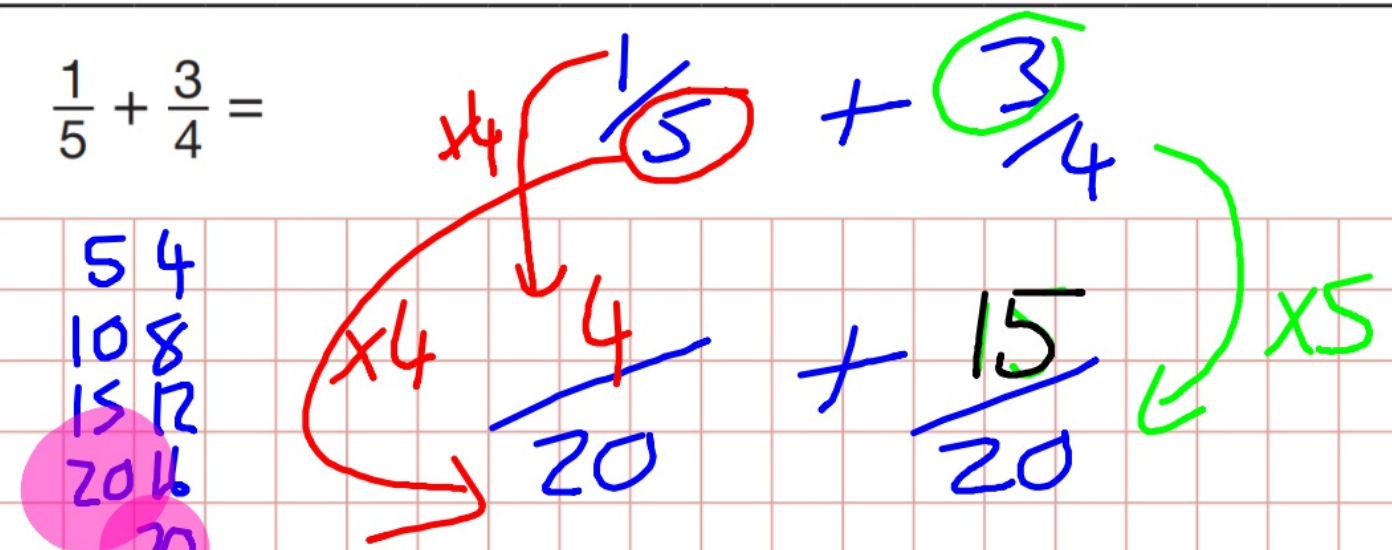
4 2

1

22572

2 marks

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




19/20

1 mark

**25**

Show your method

$$\begin{array}{r} 024 \\ 37\overline{)8\,8^{1}48} \end{array}$$

① 37

37

② 74 ✓

37

③ 111

74 14 88

$$\begin{array}{r} 111 \\ +\ 37 \\ \hline 148 \end{array}$$

④

24

2 marks

**26** $1\frac{1}{5} + 2\frac{1}{10} =$

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

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

$3\frac{3}{10}$

1 mark

**27** 35% of 320 =

100% = 320

10% = 32

×3 ↓ 10% = 32

30% = 96

5% = 16

96
+16
1 1 2

1 mark

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

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

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

$\frac{23}{36}$

1 mark

**29** 51% of 900 =

100% = 900

÷2 ↓

50% = 450

100% = 900

10% = 90

1% = 9

459

1 mark

**30**

**Show your method**

$$\begin{array}{r} 3468 \\ \times\ 62 \\ \hline 6936 \\ 208080 \\ \hline 215016 \end{array}$$

1 1
4 4 2
1 1 1

215,016

2 marks

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

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

$\frac{2}{3} \div 3$

$\frac{4}{6} \div 3$

$\frac{6}{9} \div 3 = \frac{2}{9}$

$\frac{2}{9}$

1 mark

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

$\frac{3}{4} \rightarrow \left(\frac{1}{2} + \frac{1}{4}\right)$

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

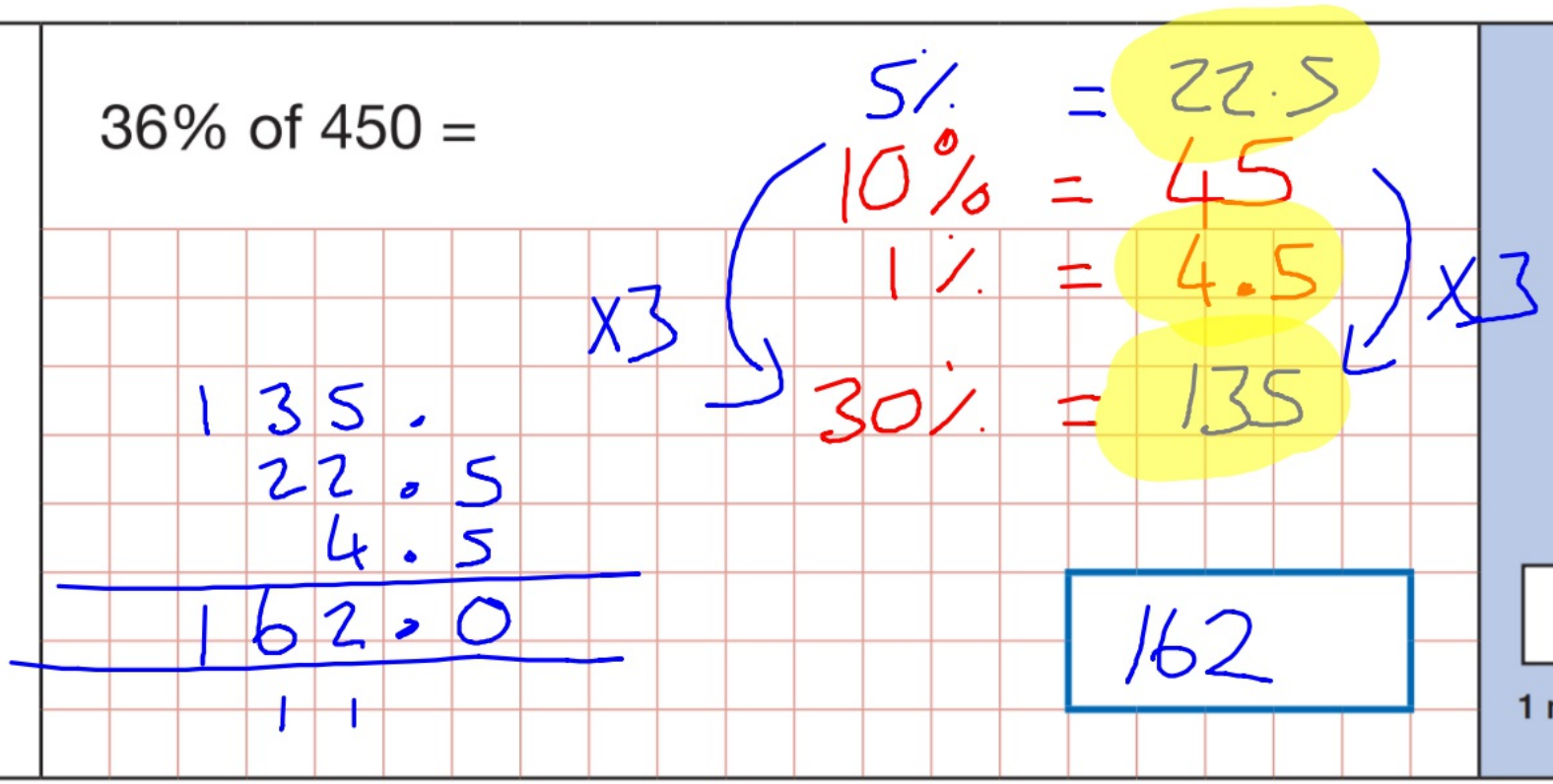
$2 = \frac{8}{4}$

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

$\frac{7}{4}$ or $1\frac{3}{4}$

1 mark

**33** 36% of 450 =




1 mark

**34** $1\frac{3}{4} \times 10 =$

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

$\frac{7}{4} \times \frac{10}{1}$

$\frac{70}{4}$

$\frac{3}{4} = 0.75$

$1.75 \times 10$

$= 17.5$

$\frac{70}{4}$ ✓ 17.5

1 mark

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

$\frac{5}{6}$ of 540

$$6 \overline{)5^{5}40} = 090$$

$$90 \times 5 = 450$$

450

1 mark

**36**

Show your method

8 3 | 8 0 5

0 0 9

83 → 581

83 → 805

80 × 7 = 560

3 × 7 = 21

581

83

1 6 6

83 × 10 = 830

83 × 9 = 747

83 − 747 = 58

7

2 marks