

1 $\frac{5}{8} \div 2 =$

1 mark

2 $59 \overline{) 2242}$

Show your method

A large grid for showing the long division method. A smaller box is provided for the final answer.

2 marks

3 $\frac{4}{5} \div 4 =$

1 mark

4 $0.9 \times 200 =$

1 mark

5 $1\frac{1}{2} \times 57 =$

1 mark

6 $15\% \times 1,000 =$

1 mark

7 $\frac{2}{6} - \frac{1}{8} =$

1 mark

8 $45\% \text{ of } 460 =$

1 mark

9 $7\% \text{ of } 500 =$

1 mark

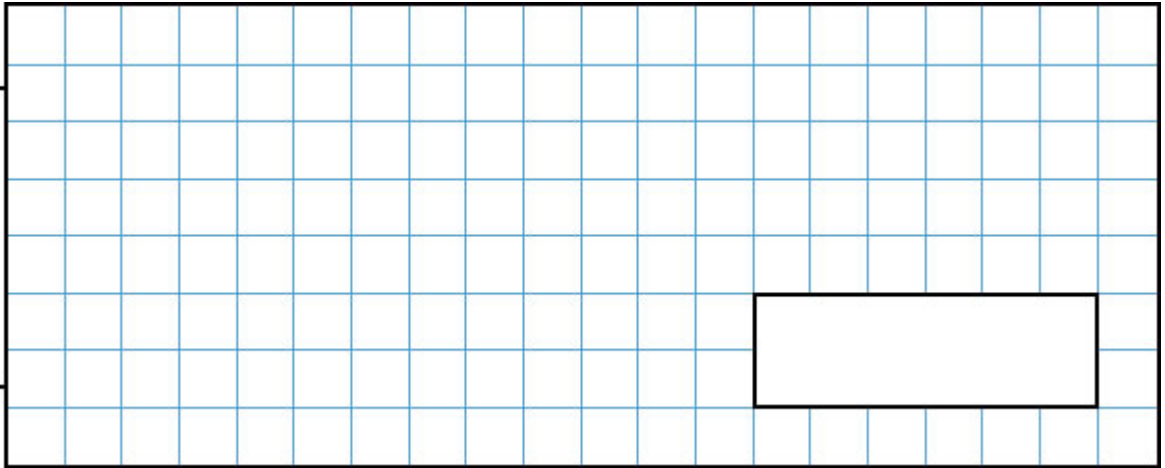
10 $2\frac{1}{3} + \frac{5}{6} =$

1 mark

11

$$\begin{array}{r} 4781 \\ \times \quad 23 \\ \hline \end{array}$$

Show
your
method



2 marks

12

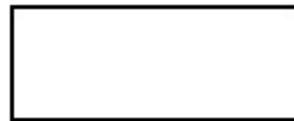
$$37.8 - 14.671 =$$



1 mark

13

$$\frac{1}{4} + \frac{1}{5} + \frac{1}{10} =$$

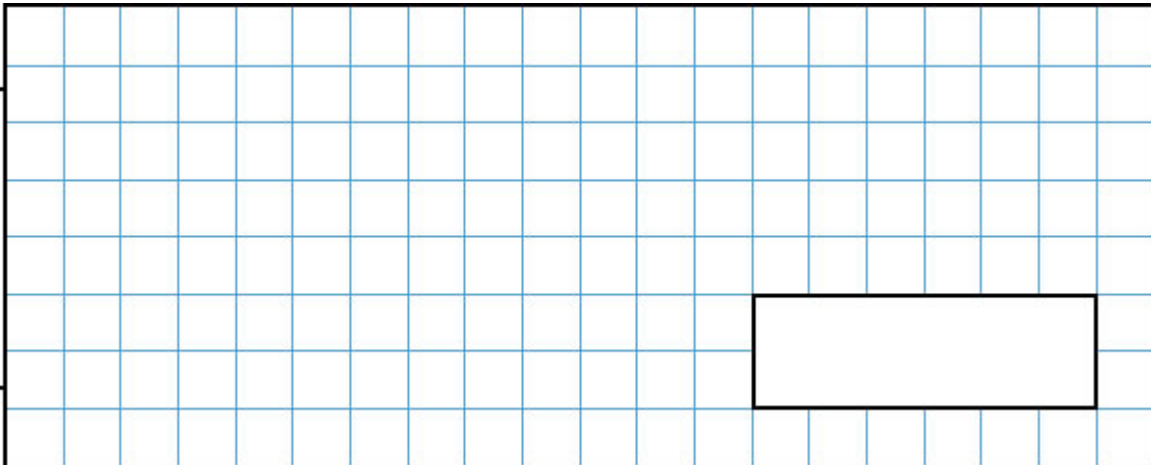


1 mark

18

$$17 \overline{) 714}$$

Show
your
method



2 marks

19

$$2,345 \times 1,000 =$$

1 mark

20

$$0.04 \div 10 =$$

1 mark

21

$$30 \times 40 =$$

1 mark

22 $\frac{62}{100} - \frac{38}{100} =$

1 mark

23 $50 + (36 \div 6) =$

1 mark

24 $- 100 = 1,059$

1 mark

25 $40 + 1,000 =$

1 mark

26 $72 \div 9 =$

1 mark

27 $167 \times 4 =$

1 mark

28 $707 + 1,818 =$

1 mark

29 $8 \times 33 =$

1 mark

30 $= 4,500 + 600$

1 mark

31 $2.7 + 3.014 =$

1 mark

32 $\frac{4}{6} + \frac{3}{6} =$

1 mark

33 $345 - 60 =$

1 mark

34 $505 \div 1 =$

1 mark

35 $\frac{3}{4} - \frac{3}{8} =$

1 mark

Mark schemes

1

$$\frac{5}{16}$$

Accept equivalent fractions or an **exact** decimal equivalent, e.g.
0.3125

[1]

2

Award **TWO** marks for the correct answer of 38

If the answer is incorrect, award **ONE** mark for a formal method of division with no more than **ONE** arithmetic error, i.e.

- long division algorithm, e.g.

$$\begin{array}{r} 38 \text{ r}2 \\ 59 \overline{) 2242} \\ \underline{- 1770} \quad (30 \times 59) \\ 474 \quad (\text{error}) \\ \underline{- 472} \quad (8 \times 59) \\ 2 \end{array}$$

OR

$$\begin{array}{r} 35 \quad (\text{error}) \\ 59 \overline{) 2242} \\ \underline{- 1770} \quad (30 \times 59) \\ 472 \\ \underline{- 472} \quad (8 \times 59) \\ 0 \end{array}$$

- short division algorithm, e.g.

$$\begin{array}{r} 3 \ 7 \ \text{r}48 \quad (\text{error}) \\ 59 \overline{) 224^{\text{47}}2} \end{array}$$

*Working must be carried through to reach a final answer for the award of **ONE** mark.*

Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor.

Up to 2m

[2]

3 $\frac{1}{5}$

Accept equivalent fractions or an **exact** decimal equivalent, e.g. $\frac{4}{20}$
or 0.2

[1]

4 180

[1]

5 $85\frac{1}{2}$

Accept equivalent fractions or an **exact** decimal equivalent, e.g.
 $\frac{171}{2}$ or 85.5

[1]

6 150

Do not accept 150%

[1]

7 $\frac{5}{24}$

Accept equivalent fractions or an **exact** decimal equivalent, e.g.
 $\frac{10}{48}$ or $0.208\bar{3}$
(accept any unambiguous indication of the recurring digit).
Do not accept rounded or truncated decimals.

[1]

8 207

Do not accept 207%

[1]

9 35

Do not accept 35%

[1]

10

$$3\frac{1}{6} \text{ OR } \frac{19}{6}$$

Accept equivalent mixed numbers, fractions or an **exact** decimal equivalent, e.g. $3.1\bar{6}$ (accept any unambiguous indication of the recurring digit).

Do not accept rounded or truncated decimals.

Do not accept $2\frac{7}{6}$

[1]**11**

Award **TWO** marks for the correct answer of 109,963

If the answer is incorrect, award **ONE** mark for a formal method of long multiplication with no more than **ONE** arithmetical error, e.g.

- $$\begin{array}{r} 4781 \\ \times \quad 23 \\ \hline 14343 \\ \underline{95620} \\ 209963 \text{ (error)} \end{array}$$

OR

- $$\begin{array}{r} 4781 \\ \times \quad 23 \\ \hline 14343 \\ \underline{95630} \text{ (error)} \\ 109973 \end{array}$$

Working must be carried through to reach a final answer for the award of **ONE** mark.

Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens:

$$\begin{array}{r} 4781 \\ \times \quad 23 \\ \hline 14343 \\ \underline{9562} \text{ (place value error)} \\ 23905 \end{array}$$

Up to 2m

[2]**12**

23.129

[1]

13 $\frac{11}{20}$

Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.55

[1]

14 Award **TWO** marks for the correct answer of 19,228

If the answer is incorrect, award **ONE** mark for the formal method of long multiplication with no more than **ONE** arithmetic error, e.g.

- $$\begin{array}{r} 418 \\ \times \quad 46 \\ \hline 2508 \\ 16720 \\ \hline 18228 \text{ (error)} \end{array}$$

OR

- $$\begin{array}{r} 418 \\ \times \quad 46 \\ \hline 2508 \\ 16620 \text{ (error)} \\ \hline 19128 \end{array}$$

Working must be carried through to reach a final answer for the award of **ONE** mark.

Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens:

- $$\begin{array}{r} 418 \\ \times \quad 46 \\ \hline 2508 \\ 1672 \text{ (place value error)} \\ \hline 4180 \end{array}$$

Up to 2m

[2]

15 4,088

[1]

16 5.55

[1]

17 83

[1]

18Award **TWO** marks for the correct answer of 42

If the answer is incorrect, award **ONE** mark for a formal method of division with no more than **ONE** arithmetic error, i.e.

- long division algorithm, e.g.

$$\begin{array}{r}
 42 \text{ r}2 \\
 17 \overline{) 714} \\
 \underline{- 680} \quad (40 \times 17) \\
 36 \quad (\text{error}) \\
 \underline{- 34} \quad (2 \times 17) \\
 2
 \end{array}$$

OR

$$\begin{array}{r}
 43 \quad (\text{error}) \\
 17 \overline{) 714} \\
 \underline{- 680} \quad (40 \times 17) \\
 34 \\
 \underline{- 34} \quad (2 \times 17) \\
 0
 \end{array}$$

- short division algorithm, e.g.

$$\begin{array}{r}
 4 \ 1 \ \text{r}7 \\
 17 \overline{) 71^2 4} \quad (\text{error in carrying digit})
 \end{array}$$

*Working must be carried through to reach a final answer for the award of **ONE** mark.*

Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor.

Up to 2m

[2]**19**

2,345,000

[1]**20**

0.004

[1]**21**

1,200

[1]

22 $\frac{6}{25}$

Accept equivalent fractions or an **exact** decimal equivalent, e.g.

$\frac{24}{100}$ or 0.24

[1]

23 56

[1]

24 1,159

[1]

25 1,040

[1]

26 8

[1]

27 668

[1]

28 2,525

[1]

29 264

[1]

30 5,100

[1]

31 5.714

[1]

32

$$1\frac{1}{6} \text{ OR } \frac{7}{6}$$

Accept equivalent mixed numbers, fractions or an **exact** decimal equivalent, e.g. $1.\overline{16}$ (accept any unambiguous indication of the recurring digit).

accept any unambiguous indication of the recurring digit).

Do not accept rounded or truncated decimals.

[1]

33

285

[1]

34

505

[1]

35

$$\frac{3}{8}$$

Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.375

[1]