

1

$979 + 100 =$

1 mark

2

$123 \times 2 =$

1 mark

3

$468 - 9 =$

1 mark

4

$43 \overline{)1118}$

Show your method

The grid is 20 units wide and 10 units high. A rounded rectangle on the left side contains the text "Show your method". A smaller empty rectangular box is located at the bottom right of the grid, spanning 6 units wide and 2 units high.

2 marks

5 $60 - 42 \div 6 =$

1 mark

6 $\frac{2}{5} \times 140 =$

1 mark

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

1 mark

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

1 mark

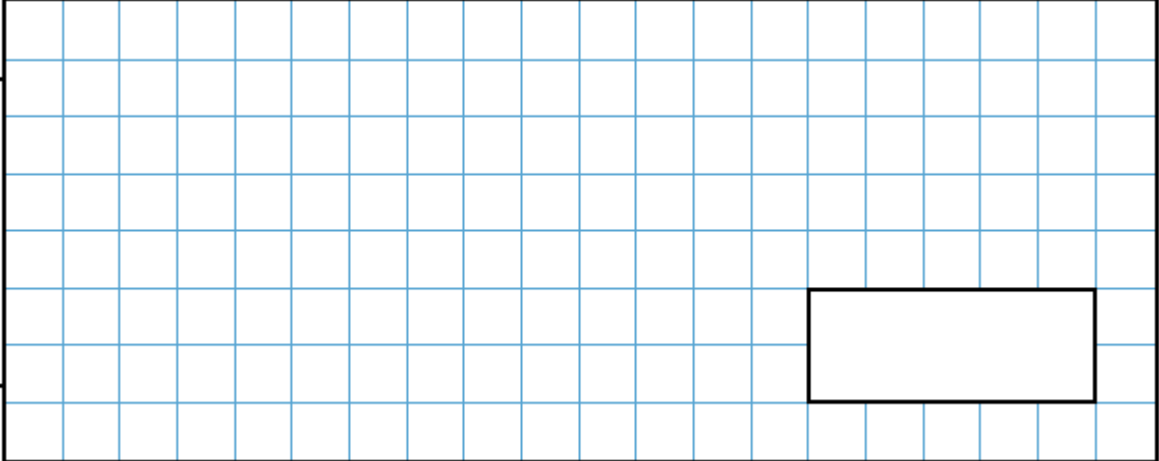
9 $15\% \times 440 =$

1 mark

10

$$\begin{array}{r} 6574 \\ \times \quad 31 \\ \hline \end{array}$$

Show your method



2 marks

11

$$1\frac{4}{5} + \frac{3}{10} =$$

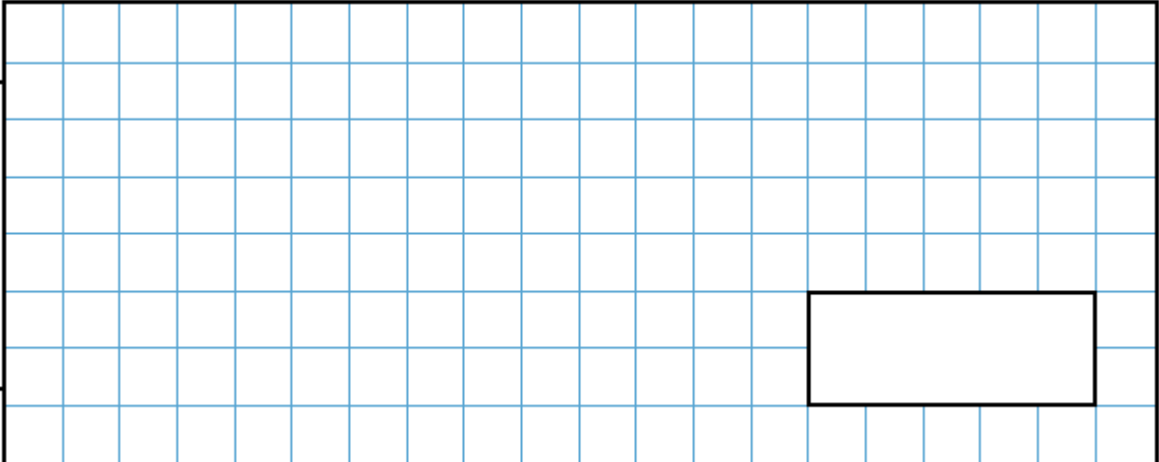


1 mark

12

$$29 \overline{)725}$$

Show your method



2 marks

13 $15 \times 6.1 =$

1 mark

14 $\frac{3}{10} - \frac{1}{20} =$

1 mark

15 20% of 1,800 =

1 mark

16 $0.9 \div 10 =$

1 mark

17 $1,320 \div 12 =$

1 mark

18

$$\frac{4}{7} + \frac{5}{7} =$$

1 mark

19

$$\boxed{} = 435 - 30$$

1 mark

20

$$\begin{array}{r} 71 \\ \times 46 \\ \hline \end{array}$$

Show your method

2 marks

21

$$4 - 1.15 =$$

1 mark

22 $15.98 + 26.314 =$

1 mark

23 $125.48 - 72.3 =$

1 mark

24 $3^2 + 10 =$

1 mark

25 $122,456 - 11,999 =$

1 mark

26 $100 \times 412 =$

1 mark

27 $3.005 + 6.12 =$

1 mark

28 $486 \div 3 =$

1 mark

29 $50 \times 70 =$

1 mark

30 $879 \times 3 =$

1 mark

31 $71 \times 8 =$

1 mark

32 $96 \div 4 =$

1 mark

33 $89,994 + 7,643 =$

1 mark

34

$$= 936 + 285$$

1 mark

35

$$95 \div 5 =$$

1 mark

Mark schemes

1 1079 [1]

2 246 [1]

3 459 [1]

4 Award **TWO** marks for the correct answer of 26
If the answer is incorrect, award **ONE** mark for the formal method of division with no more than **ONE** arithmetical error, i.e.

- long division algorithm, e.g.

$$\begin{array}{r} 28r14 \\ 43 \overline{)1118} \\ - 645 \quad (15 \times 43) \\ \hline - 430 \quad (error) \quad (10 \times 43) \\ \hline - 129 \quad (3 \times 43) \\ \hline 14 \end{array}$$

OR

$$\begin{array}{r} 25r23 \\ 43 \overline{)1118} \\ - 88 \quad (error) \quad (2 \times 43) \\ \hline - 215 \quad (5 \times 43) \\ \hline 23 \end{array}$$

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

- short division algorithm, e.g.

$$43 \overline{)111^{25}8} \quad (error)$$

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]

5 53

[1]

6 56

[1]

7 $\frac{11}{12}$

*Accept equivalent fractions or the **exact** decimal equivalent e.g.*

0.91 $\bar{6}$

accept any unambiguous indication of the recurring digit).

Do not accept rounded or truncated decimals.

[1]

8 $\frac{1}{5}$

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.2*

[1]

9 66

Do not accept 66%

[1]

10Award **TWO** marks for the correct answer of 203,794If the answer is incorrect, award **ONE** mark for the formal method of long multiplication with no more than **ONE** arithmetical error,

e.g.

$$\begin{array}{r}
 \bullet \quad 6574 \\
 \times \quad 31 \\
 \hline
 6574 \\
 143790 \quad (\text{error}) \\
 \hline
 150364
 \end{array}$$

OR

$$\begin{array}{r}
 \bullet \quad 6574 \\
 \times \quad 31 \\
 \hline
 6574 \\
 197220 \\
 \hline
 193794 \quad (\text{error})
 \end{array}$$

*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:*

$$\begin{array}{r}
 6574 \\
 \times \quad 31 \\
 \hline
 6574 \\
 19722 \quad (\text{place value error}) \\
 \hline
 26296
 \end{array}$$

Up to 2m

[2]**11**

$$2\frac{1}{10} \text{ OR } \frac{21}{10}$$

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 2.1*

Do not accept

$$1\frac{11}{10}$$

[1]

12Award **TWO** marks for the correct answer of 25If the answer is incorrect, award **ONE** mark for the formal methods of division with no more than **ONE** arithmetical error, i.e.

$$\begin{array}{r}
 25r2 \\
 29 \overline{)725} \\
 - \frac{580}{145} \quad (20 \times 29) \\
 - \frac{116}{31} \text{ (error) } (4 \times 29) \\
 - \frac{29}{2} \quad (1 \times 29)
 \end{array}$$

OR

$$\begin{array}{r}
 29 \overline{) \frac{24}{725}} \text{ (error)} \\
 - \frac{58}{145} \quad (2 \times 29) \\
 - \frac{145}{0} \quad (5 \times 29)
 \end{array}$$

- short division algorithm, e.g.

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

$$29 \overline{) 72^{14}5} \text{ (error)}$$

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]**13**

91.5

[1]**14**

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

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.25*

[1]

15 360

Do not accept 360%

[1]

16 0.09

[1]

17 110

[1]

18 $1\frac{2}{7}$ OR $\frac{9}{7}$

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

$1.\overline{285714}$

(accept any unambiguous indication of the recurring digits).

***Do not** accept rounded or truncated decimals.*

[1]

19 405

[1]

20

Award **TWO** marks for the correct answer of 3,266

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

e.g.

$$\begin{array}{r}
 \bullet \quad 71 \\
 \times \quad 46 \\
 \hline
 426 \\
 \underline{2840} \\
 3260 \text{ (error)}
 \end{array}$$

OR

$$\begin{array}{r}
 \bullet \quad 71 \\
 \times \quad 46 \\
 \hline
 426 \\
 \underline{2440} \text{ (error)} \\
 2866
 \end{array}$$

*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:*

$$\begin{array}{r}
 71 \\
 \times \quad 46 \\
 \hline
 426 \\
 \underline{284} \text{ (place value error)} \\
 710
 \end{array}$$

Up to 2m

[2]

21

2.85

[1]

22

42.294

[1]

23

53.18

[1]

24

19

[1]

25

110,457

[1]

26	41,200	[1]
27	9,125	[1]
28	162	[1]
29	3,500	[1]
30	2,637	[1]
31	568	[1]
32	24	[1]
33	97,637	[1]
34	1,221	[1]
35	19	[1]