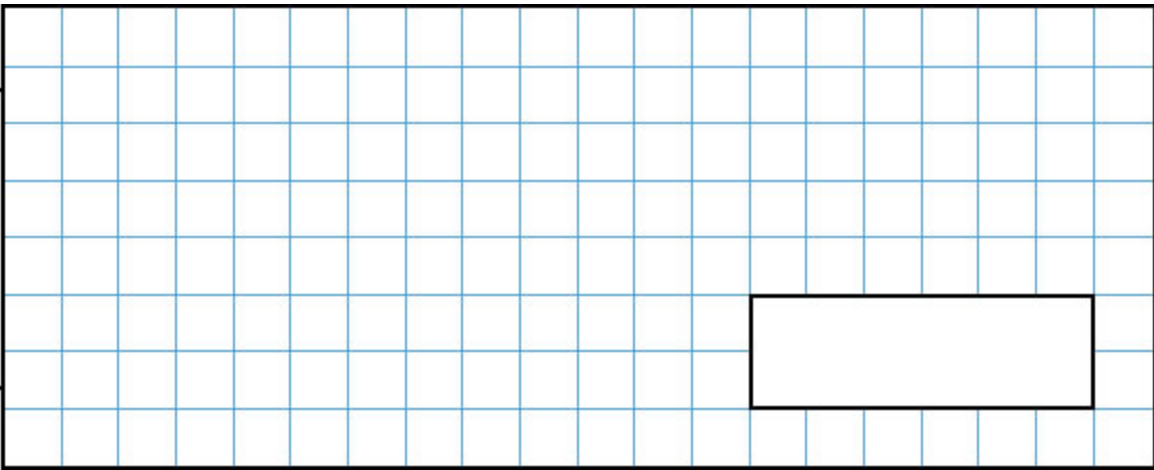


1 $\begin{array}{r} 3468 \\ \times \quad 62 \\ \hline \end{array}$

Show your method



2 marks

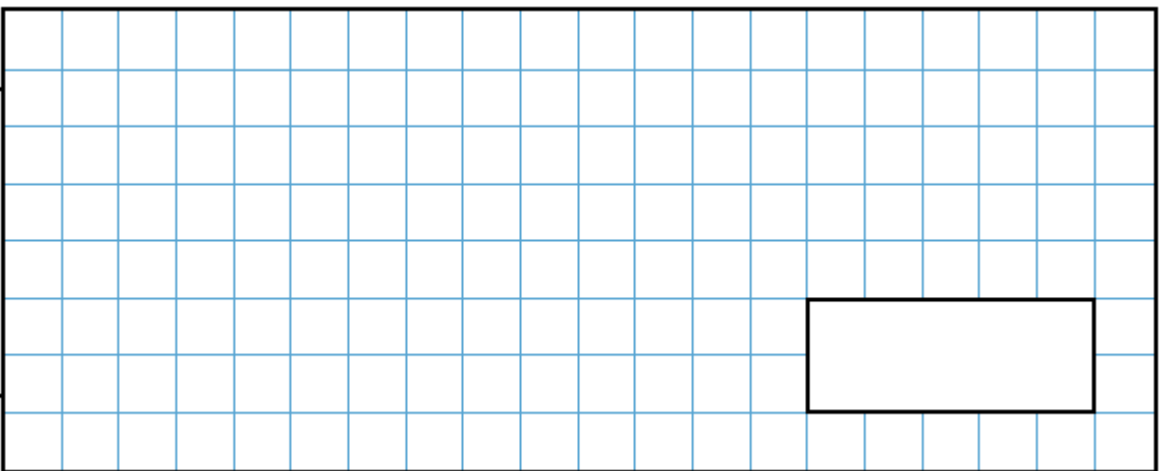
2 $456 \times 0 =$



1 mark

3 $\begin{array}{r} 729 \\ \times \quad 54 \\ \hline \end{array}$

Show your method



2 marks

4 $82 \times 1 =$

1 mark

5
$$\begin{array}{r} 2376 \\ \times \quad 15 \\ \hline \end{array}$$

Show your method

2 marks

6
$$\begin{array}{r} 678 \\ \times \quad 54 \\ \hline \end{array}$$

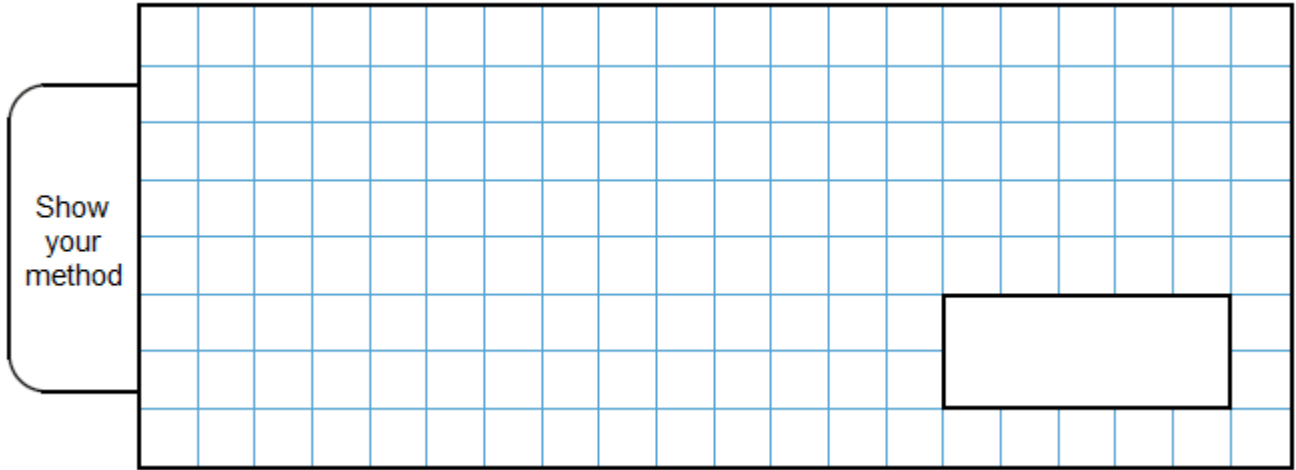
Show your method

2 marks

7

$$\begin{array}{r} 54 \\ \times 23 \\ \hline \end{array}$$

Show your method



2 marks

8

$100 \times 100 =$

1 mark

9

$24 \times 3 =$

1 mark

10

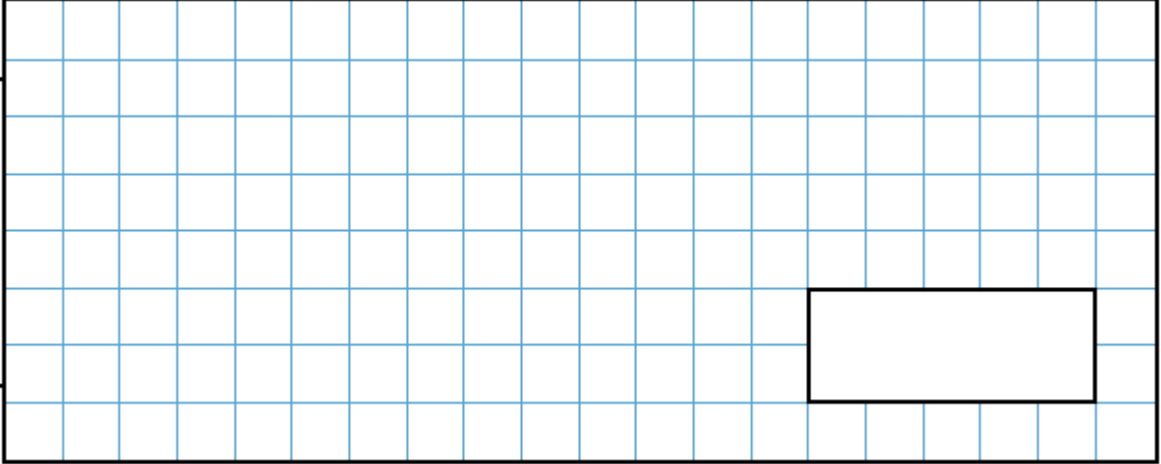
$123 \times 2 =$

1 mark

11

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

Show your method

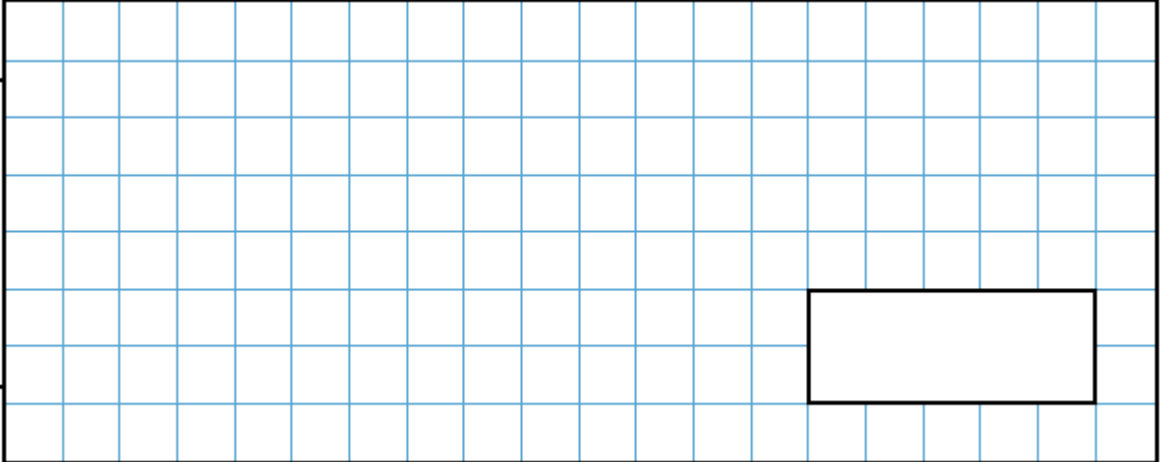


2 marks

12

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

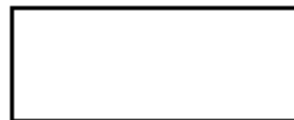
Show your method



2 marks

13

$$100 \times 412 =$$



1 mark

14

$50 \times 70 =$

1 mark

15

$71 \times 8 =$

1 mark

16

$879 \times 3 =$

1 mark

17

$$\begin{array}{r} 418 \\ \times \quad 46 \\ \hline \end{array}$$

Show your method

2 marks

18

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

Show
your
method

A large grid for showing the multiplication method. A smaller empty box is provided for the final answer.

2 marks

19

$2,345 \times 1,000 =$

1 mark

20

$30 \times 40 =$

1 mark

21

$167 \times 4 =$

1 mark

22 $8 \times 33 =$

1 mark

23
$$\begin{array}{r} 5413 \\ \times \quad 86 \\ \hline \end{array}$$

Show your method

The grid is 20 units wide and 10 units high. A box labeled 'Show your method' is on the left. A smaller empty box is on the right side of the grid.

2 marks

24 $2 \times 45 =$

1 mark

25

785

23

x _____

Show
your
method

A large grid for showing the multiplication method. A smaller empty box is provided for the final answer.

2 marks

Mark schemes

1

Award **TWO** marks for the correct answer of 215,016

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

$$\begin{array}{r} \bullet \quad 3468 \\ \times \quad \underline{62} \\ \quad 6936 \\ \underline{208080} \\ 214016 \text{ (error)} \end{array}$$

OR

$$\begin{array}{r} \bullet \quad 3468 \\ \times \quad \underline{62} \\ \quad 6934 \text{ (error)} \\ \underline{208080} \\ 215014 \end{array}$$

*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:*

$$\begin{array}{r} 3468 \\ \times \quad \underline{62} \\ \quad 6936 \\ \underline{20808} \text{ (place value error)} \\ 27744 \end{array}$$

Up to 2m

[2]

2

0

[1]

3

For 2 marks:

39 366

For 1 mark:

$$\begin{array}{r} 729 \\ \times \quad \underline{54} \\ \quad 2916 \\ \underline{36\ 450} \\ \underline{39\ 366} \end{array}$$

*An error in one row, then added correctly,
or an error in the addition*

Up to 2

[2]

4 82

[1]

5 Award **TWO** marks for the correct answer of 35640

If the answer is incorrect award **ONE** mark for evidence of using the formal method of long multiplication which contains no more than one arithmetical error, eg:

■
$$\begin{array}{r} 2376 \\ \times 15 \\ \hline 11880 \\ 23760 \\ \hline \end{array}$$

wrong answer

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

*In all cases accept follow-through of **ONE** error in working.*

Do not award any marks if:

- *The error is in the place value, eg by omission of the zero when multiplying by tens eg:*

$$\begin{array}{r} 2376 \\ \times 15 \\ \hline 11880 \\ 2376 \\ \hline \end{array}$$

wrong answer

- *The final (answer) line of digits is missing*

Up to 2

[2]

6

Award **TWO** marks for the correct answer of 36,612.

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

- $$\begin{array}{r} 678 \\ \times \quad 54 \\ \hline 33900 \\ \quad 2712 \\ \hline \end{array}$$

wrong answer

Do not award any marks if:

- *the error is in the place value, e.g. the omission of the zero when multiplying by tens, i.e:*

$$\begin{array}{r} 678 \\ \times \quad 54 \\ \hline 3390 \\ \quad 2712 \\ \hline \end{array}$$

wrong answer

- *the final (answer) line of digits is missing.*

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

Up to 2

[2]

7

Award **TWO** marks for the correct answer of 1242.

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

- $$\begin{array}{r} 54 \\ \times 23 \\ \hline 162 \\ \underline{1080} \end{array}$$
 wrong answer

Do not award any marks if:

- the error is in the place value, e.g. the omission of the zero when multiplying by tens:

$$\begin{array}{r} 54 \\ \times 23 \\ \hline 162 \\ \underline{108} \end{array}$$

wrong answer

- the final (answer) line of digits is missing.
Working must be carried through to reach an answer for the award of **ONE** mark.

Commentary: Two marks are awarded for the correct answer. However, if the answer is incorrect, one mark can only be awarded if the pupil has used the formal method of long multiplication.

Up to 2

[2]

8

10 000

[1]

9

72

[1]

10

246

[1]

11Award **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]

12

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]

13

41,200

[1]

14

3,500

[1]

15

568

[1]

16

2,637

[1]

17Award **TWO** marks for the correct answer of 19,228If 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]

18Award **TWO** marks for the correct answer of 109,963If 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]**19**

2,345,000

[1]**20**

1,200

[1]**21**

668

[1]**22**

264

[1]

23Award **TWO** marks for the correct answer of 465,518If the answer is incorrect, award **ONE** mark for the formal method of long multiplication with no more than **ONE** arithmetic error, e.g.

•

$$\begin{array}{r}
 5413 \\
 \times \quad 86 \\
 \hline
 32478 \\
 433040 \\
 \hline
 465438 \text{ (error)}
 \end{array}$$

OR

•

$$\begin{array}{r}
 5413 \\
 \times \quad 86 \\
 \hline
 32478 \\
 423040 \text{ (error)} \\
 \hline
 455518
 \end{array}$$

*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:*

$$\begin{array}{r}
 5413 \\
 \times \quad 86 \\
 \hline
 32478 \\
 43304 \text{ (place value error)} \\
 \hline
 75782
 \end{array}$$

Up to 2m

[2]

24

90

[1]

25

Award **TWO** marks for the correct answer of 18,055

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

•

$$\begin{array}{r} 785 \\ \times \quad 23 \\ \hline 2355 \\ 15700 \\ \hline 18155 \text{ (error)} \end{array}$$

OR

•

$$\begin{array}{r} 785 \\ \times \quad 23 \\ \hline 2345 \text{ (error)} \\ 15700 \\ \hline 18045 \end{array}$$

*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:*

$$\begin{array}{r} 785 \\ \times \quad 23 \\ \hline 2355 \\ 1570 \text{ (place value error)} \\ \hline 3925 \end{array}$$

Up to 2m

[2]