## Teaching Long Multiplication

## Worksheets for multiplying up to 4-digits by 2-digits

## Teaching Long Multiplication - Contents

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## Resource instructions

Read the accompanying blog on Third Space Learning before using the resources provided.

Note:
'multiplicand' is a quantity which is to be multiplied by another.

## How to use the worksheets below

1. Print out the worksheet, with 1 sheet covering every 2 pupils/groups.
2. Cut the worksheet in half (the questions are on there twice to save paper).
3. Hand the sheets out to your class, and get them to work through the questions in their maths books.
4. Watch them solve the problems using the method they have just learned!
5. Either hand out the answer sheet provided, or go through the answers on the whiteboard, opening them up to discussion.

## Multiplying 2-digit by 2-digit

Instructions

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products

54
$\times 32$
$108(54 \times 2)$
1620 ( $54 \times 30$ )
$\underline{1728}$

A

1) $45 \times 14=$
2) $57 \times 15=$
3) $36 \times 31=$
4) $31 \times 25=$
5) $47 \times 23=$
6) $46 \times 21=$
7) $62 \times 25=$
8) $33 \times 23=$
9) $55 \times 42=$
10) $68 \times 49=$
11) $37 \times 26=$
12) $93 \times 57=$
13) $50 \times 38=$
14) $47 \times 77=$

## Multiplying 2-digit by 2-digit

Instructions

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products

54
$\frac{\times 32}{108}(54 \times 2)$
1620 ( $54 \times 30$ )
$\overline{1728}$
A
B

C

1) $45 \times 14=$
2) $27 \times 19=$
3) $50 \times 38=$
4) $57 \times 15=$
5) $36 \times 31=$
6) $68 \times 49=$
7) $31 \times 25=$
8) $47 \times 23=$
9) $37 \times 26=$
10) $46 \times 21=$
11) $62 \times 25=$
12) $93 \times 57=$
13) $33 \times 23=$
14) $55 \times 42=$
15) $47 \times 77=$

## Multiplying 2-digit by 2-digit -

## The answers

A

1) $45 \times 14=630$
2) $57 \times 15=855$
3) $31 \times 25=775$
4) $46 \times 21=966$
5) $33 \times 23=759$

B

1) $27 \times 19=513$
2) $36 \times 31=1,116$
3) $47 \times 23=1,081$
4) $62 \times 25=1,550$
5) $55 \times 42=2,310$

C

1) $50 \times 38=1,900$
2) $68 \times 49=3,332$
3) $37 \times 26=962$
4) $93 \times 57=5,301$
5) $47 \times 77=3,619$

## Multiplying 3-digit by 2-digit

## Instructions

154

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products
$\frac{152}{308}(154 \times 2)$
$4620(154 \times 30)$
$+\quad{ }^{11}$
A
B
C
1) $243 \times 13=$
2) $249 \times 17=$
3) $407 \times 35=$
4) $417 \times 15=$
5) $315 \times 26=$
6) $628 \times 46=$
7) $314 \times 25=$
8) $492 \times 34=$
9) $317 \times 67=$
10) $426 \times 23=$
11) $528 \times 35=$
12) $536 \times 59=$
13) $386 \times 35=$
14) $753 \times 52=$
15) $734 \times 63=$

## Multiplying 3-digit by 2-digit

## Instructions

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products

154
$\frac{153}{308}(154 \times 2)$
$4620(154 \times 30)$
$\frac{11}{4928}$
A
B
C

1) $243 \times 13=$
2) $249 \times 17=$
3) $407 \times 35=$
4) $417 \times 15=$
5) $315 \times 26=$
6) $628 \times 46=$
7) $314 \times 25=$
8) $492 \times 34=$
9) $317 \times 67=$
10) $426 \times 23=$
11) $528 \times 35=$
12) $536 \times 59=$
13) $386 \times 35=$
14) $753 \times 52=$
15) $734 \times 63=$

## Multiplying 3-digit by 2-digit -

## The answers

A

1) $243 \times 13=3,159$
2) $417 \times 15=6,255$
3) $314 \times 25=7,850$
4) $426 \times 23=9,798$
5) $386 \times 35=13,510$

B

1) $249 \times 17=4,233$
2) $315 \times 26=8,190$
3) $492 \times 34=16,728$
4) $528 \times 35=18,480$
5) $753 \times 52=39,156$

C

1) $407 \times 35=14,245$
2) $628 \times 46=28,888$
3) $317 \times 67=21,239$
4) $536 \times 59=31,624$
5) $734 \times 63=46,242$

## Multiplying 4-digit by 2-digit

## Instructions

2154

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products
1) $1,542 \times 15=$
2) $3,024 \times 13=$
3) $2,634 \times 24=$
4) $3,142 \times 23=$
5) $5,346 \times 37=$

A
B

1) $2,458 \times 16=$
2) $4,918 \times 36=$
3) $1,796 \times 27=$
4) $3,569 \times 53=$
5) $4,260 \times 34=$
6) $6,708 \times 84=$
7) $3,086 \times 72=$
8) $5,319 \times 69=$
9) $5,935 \times 63=$

B
5) $4,826 \times 83=$

| $\times \quad 32$ |
| :--- |
| $4308(2154 \times 2)$ |

$64620(2154 \times 30)$
68928

## Multiplying 4-digit by 2-digit

## Instructions

1. Lay out the calculation in columns
2. Ones times multiplicand
3. Tens times multiplicand
4. Add the products

## A

1) $1,542 \times 15=$
2) $2,458 \times 16=$
3) $4,918 \times 36=$
4) $3,024 \times 13=$
5) $1,796 \times 27=$
6) $3,569 \times 53=$
7) $2,634 \times 24=$
8) $4,260 \times 34=$
9) $6,708 \times 84=$
10) $3,142 \times 23=$
11) $3,086 \times 72=$
12) $5,319 \times 69=$
13) $5,346 \times 37=$
14) $5,935 \times 63=$
15) $4,826 \times 83=$

2154

| $\times \quad 32$ |
| :--- |
| 4308 |
| $(2154 \times 2)$ |

$64620(2154 \times 30)$
$\frac{11}{68928}$

## Multiplying 4-digit by 2-digit -

## The answers

A

1) $1,542 \times 15=23,130$
2) $3,024 \times 13=39,312$
3) $2,634 \times 24=63,216$
4) $3,142 \times 23=72,266$
5) $5,346 \times 37=197,802$

B

1) $2,458 \times 16=39,328$
2) $1,796 \times 27=48,492$
3) $4,260 \times 34=144,840$
4) $3,086 \times 72=222,192$
5) $5,935 \times 63=373,905$

C

1) $4,918 \times 36=177,048$
2) $3,569 \times 53=189,157$
3) $6,708 \times 84=563,472$
4) $5,319 \times 69=367,011$
5) $4,826 \times 83=400,558$

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