

# Year 4 Maths - Arithmetic lesson

LO: To use a written method for multiplication



What do we already know about short multiplication?

$$24 \times 4$$

How can we solve this using a written method?

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Today, we will be using column method to solve these questions.

A handwritten column multiplication problem on a blue grid. The numbers 24 and 4 are written in the top two rows. A multiplication sign (x) is written to the left of the 4. A horizontal line is drawn under the 4. The bottom two rows are empty.

	2	4
x		4
<hr/>		

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LO: To use a written method for multiplication



A photograph of a handwritten multiplication problem on a blue grid background. The problem is  $24 \times 4$ . The numbers are written in blue ink. The multiplier 4 is written below the multiplicand 24, aligned under the 4. A horizontal line is drawn below the 4. The product 96 is written below the line in red ink. A horizontal line is drawn below the 6. The word 'x' is written in red ink below the line, under the 9.

Don't forget you need to carry the ten to the tens column

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Now try these:

32		27		42		145
x 6		x 3		x 7		x 3
_____		_____		_____		_____
_____		_____		_____		_____

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32	27	42	145
x 6	x 3	x 7	x 3
<hr/>	<hr/>	<hr/>	<hr/>
192	81	294	435
<hr/>	<hr/>	<hr/>	<hr/>
x	x	x	x x

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Is this correct? Why/why not?

	3	1	3
x			3
	9	3	5

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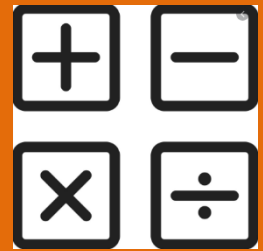


## Success criteria:

- Line up the digits carefully
- Multiply ones
- Multiply tens
- Start with the ones column

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Everyone will start on Step 1. If you are confident after answering the first 5 questions you can move onto Step 2 and then Step 3

Step 1	Step 2	Step 3
$41 \times 5 =$	$36 \times 2 =$	$142 \times 4 =$
$54 \times 2 =$	$27 \times 5 =$	$225 \times 5 =$
$31 \times 5 =$	$19 \times 2 =$	$143 \times 3 =$
$72 \times 2 =$	$83 \times 5 =$	$658 \times 8 =$
$24 \times 4 =$	$49 \times 5 =$	$715 \times 6 =$
$21 \times 3 =$	$64 \times 5 =$	$553 \times 4 =$
$52 \times 3 =$	$46 \times 4 =$	$345 \times 4 =$
$43 \times 3 =$	$23 \times 6 =$	$195 \times 5 =$
$61 \times 6 =$	$17 \times 7 =$	$438 \times 9 =$
$91 \times 8 =$	$28 \times 4 =$	$844 \times 6 =$

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Answers:

Step 1	Step 2	Step 3
$41 \times 5 = 205$	$36 \times 2 = 72$	$142 \times 4 = 568$
$54 \times 2 = 108$	$27 \times 5 = 135$	$225 \times 5 = 1125$
$31 \times 5 = 155$	$19 \times 2 = 38$	$143 \times 3 = 429$
$72 \times 2 = 144$	$83 \times 5 = 415$	$658 \times 8 = 5264$
$24 \times 4 = 96$	$49 \times 5 = 245$	$715 \times 6 = 4290$
$21 \times 3 = 63$	$64 \times 5 = 320$	$553 \times 4 = 2212$
$52 \times 3 = 156$	$46 \times 4 = 184$	$345 \times 4 = 1380$
$43 \times 3 = 129$	$23 \times 6 = 138$	$195 \times 5 = 975$
$61 \times 6 = 366$	$17 \times 7 = 119$	$438 \times 9 = 3942$
$91 \times 8 = 728$	$28 \times 4 = 112$	$844 \times 6 = 5064$