

# Written Multiplication

## Year 4

Use grid multiplication to multiply 3-digit numbers by 1-digit numbers

e.g.  $253 \times 6$

$\times$	200	50	3	
6	1200	300	18	= 1518

Use a vertical written algorithm (ladder) to multiply 3-digit numbers by 1-digit numbers

e.g.  $253 \times 6$

$$\begin{array}{r} \phantom{\times} \phantom{00} 2 \phantom{00} 5 \phantom{00} 3 \\ \times \phantom{00} \phantom{00} \phantom{00} 6 \\ \hline 1 \phantom{00} 2 \phantom{00} 0 \phantom{00} 0 \leftarrow 6 \times 200 \\ \phantom{00} 3 \phantom{00} 0 \phantom{00} 0 \leftarrow 6 \times 50 \\ + \phantom{00} \phantom{00} 1 \phantom{00} 8 \leftarrow 6 \times 3 \\ \hline 1 \phantom{00} 5 \phantom{00} 1 \phantom{00} 8 \end{array}$$

Use grid multiplication to multiply 2-digit numbers by 2-digit numbers

e.g.  $16 \times 48$

$\times$	10	6	
40	400	240	= 640
8	80	48	= 128
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