

Y5-6

MULTIPLICATION X

Objective & Strategy	Concrete	Pictorial	Abstract																											
Column Multiplication for 3 and 4 digits x 1 digit.	<div><table><tr><th>Hundreds</th><th>Tens</th><th>Ones</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table><p>It is important at this stage that they always multiply the ones first.</p><p>Children can continue to be supported by place value counters at the stage of multiplication. This initially done where there is no regrouping. $321 \times 2 = 642$</p></div>	Hundreds	Tens	Ones													<div><table><tr><td>x</td><td>300</td><td>20</td><td>7</td></tr><tr><td>4</td><td>1200</td><td>80</td><td>28</td></tr></table></div>	x	300	20	7	4	1200	80	28	<div>$\begin{array}{r} 327 \\ \times 4 \\ \hline 128 \\ 80 \\ 1200 \\ \hline 1308 \end{array}$$\begin{array}{r} 327 \\ \times 4 \\ \hline 1308 \\ \text{1 2} \end{array}$<p>This will lead to a compact method.</p></div>				
Hundreds	Tens	Ones																												
x	300	20	7																											
4	1200	80	28																											
Column multiplication	Manipulatives may still be used with the corresponding long multiplication modelled alongside.	<div><table><tr><td></td><td>10</td><td>8</td></tr><tr><td>10</td><td>100</td><td>80</td></tr><tr><td>3</td><td>30</td><td>24</td></tr></table></div>		10	8	10	100	80	3	30	24	<div><table><tr><td></td><td>1</td><td>8</td></tr><tr><td>x</td><td>1</td><td>3</td></tr><tr><td></td><td>5</td><td>4</td></tr><tr><td></td><td>2</td><td></td></tr><tr><td>1</td><td>8</td><td>0</td></tr><tr><td>2</td><td>3</td><td>4</td></tr></table><p>18 x 3 on the first row (8 x 3 = 24, carrying the 2 for 20, then 1 x 3) 18 x 10 on the 2nd row. Show multiplying by 10 by putting zero in units first</p>$\begin{array}{r} 1234 \\ \times 16 \\ \hline 7404 \\ 12340 \\ \hline 19744 \end{array}$<p>(1234 x 6) (1234 x 10)</p><p>Continue to use bar modelling to support problem solving</p></div>		1	8	x	1	3		5	4		2		1	8	0	2	3	4
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