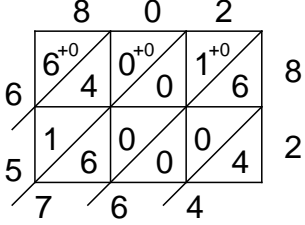


Lattice multiplication with two- and three-digit numbers (2x3)

Solutions are on page 2

<p>(1) $802 \times 82 = 65,764$</p> 	<p>(2) $115 \times 65 =$</p>	<p>(3) $464 \times 41 =$</p>
<p>(4) $682 \times 89 =$</p>	<p>(5) $200 \times 13 =$</p>	<p>(6) $705 \times 94 =$</p>
<p>(7) $394 \times 36 =$</p>	<p>(8) $558 \times 48 =$</p>	<p>(9) $125 \times 96 =$</p>
<p>(10) $173 \times 58 =$</p>	<p>(11) $653 \times 92 =$</p>	<p>(12) $958 \times 92 =$</p>

Lattice multiplication with two- and three-digit numbers (2x3)

Also see the Worksheets and Walkthroughs video: 'Multiplication--The Lattice Method'

<p>(1)</p> <p>$802 \times 82 = 65,764$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">8</td><td style="text-align: center;">0</td><td style="text-align: center;">2</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">6^{+0} 4</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+0} 0</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">1^{+0} 6</td><td style="padding: 5px;">8</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">5</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">1 6</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0 0</td><td style="padding: 5px; text-align: center;">0 4</td><td style="padding: 5px;">2</td></tr> <tr><td></td><td style="text-align: center;">7</td><td style="text-align: center;">6</td><td style="text-align: center;">4</td><td></td></tr> </table>		8	0	2		6	6^{+0} 4	0^{+0} 0	1^{+0} 6	8	5	1 6	0 0	0 4	2		7	6	4		<p>(2)</p> <p>$115 \times 65 = 7,475$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">1</td><td style="text-align: center;">1</td><td style="text-align: center;">5</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">0</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+0} 6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+1} 6</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">3^{+0} 0</td><td style="padding: 5px;">6</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">7</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0 5</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0 5</td><td style="padding: 5px; text-align: center;">2 5</td><td style="padding: 5px;">5</td></tr> <tr><td></td><td style="text-align: center;">4</td><td style="text-align: center;">7</td><td style="text-align: center;">5</td><td></td></tr> </table>		1	1	5		0	0^{+0} 6	0^{+1} 6	3^{+0} 0	6	7	0 5	0 5	2 5	5		4	7	5		<p>(3)</p> <p>$464 \times 41 = 19,024$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">4</td><td style="text-align: center;">6</td><td style="text-align: center;">4</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">1</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">1^{+0} 6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">2^{+1} 4</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">1^{+1} 6</td><td style="padding: 5px;">4</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">9</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0 4</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0 6</td><td style="padding: 5px; text-align: center;">0 4</td><td style="padding: 5px;">1</td></tr> <tr><td></td><td style="text-align: center;">0</td><td style="text-align: center;">2</td><td style="text-align: center;">4</td><td></td></tr> </table>		4	6	4		1	1^{+0} 6	2^{+1} 4	1^{+1} 6	4	9	0 4	0 6	0 4	1		0	2	4	
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<p>(4)</p> <p>$682 \times 89 = 60,698$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">6</td><td style="text-align: center;">8</td><td style="text-align: center;">2</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">4^{+2} 8</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">6^{+1} 4</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">1^{+0} 6</td><td style="padding: 5px;">8</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">0</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">5 4</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">7 2</td><td style="padding: 5px; text-align: center;">1 8</td><td style="padding: 5px;">9</td></tr> <tr><td></td><td style="text-align: center;">6</td><td style="text-align: center;">9</td><td style="text-align: center;">8</td><td></td></tr> </table>		6	8	2		6	4^{+2} 8	6^{+1} 4	1^{+0} 6	8	0	5 4	7 2	1 8	9		6	9	8		<p>(5)</p> <p>$200 \times 13 = 2,600$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">2</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">0</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+0} 2</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+0} 0</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+0} 0</td><td style="padding: 5px;">1</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">2</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0 6</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0 0</td><td style="padding: 5px; text-align: center;">0 0</td><td style="padding: 5px;">3</td></tr> <tr><td></td><td style="text-align: center;">6</td><td style="text-align: center;">0</td><td style="text-align: center;">0</td><td></td></tr> </table>		2	0	0		0	0^{+0} 2	0^{+0} 0	0^{+0} 0	1	2	0 6	0 0	0 0	3		6	0	0		<p>(6)</p> <p>$705 \times 94 = 66,270$</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><td></td><td style="text-align: center;">7</td><td style="text-align: center;">0</td><td style="text-align: center;">5</td><td></td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">6^{+0} 3</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">0^{+1} 0</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">4^{+0} 5</td><td style="padding: 5px;">9</td></tr> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">6</td><td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px; text-align: center;">2 8</td><td style="border-bottom: 1px solid black; padding: 5px; text-align: center;">0 0</td><td style="padding: 5px; text-align: center;">2 0</td><td style="padding: 5px;">4</td></tr> <tr><td></td><td style="text-align: center;">2</td><td style="text-align: center;">7</td><td style="text-align: center;">0</td><td></td></tr> </table>		7	0	5		6	6^{+0} 3	0^{+1} 0	4^{+0} 5	9	6	2 8	0 0	2 0	4		2	7	0	
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