

Lattice multiplication with two three-digit numbers (3x3)

Solutions are on page 2

<p>(1) $987 \times 654 = 645,498$</p>	<p>(2) $698 \times 161 =$</p>	<p>(3) $508 \times 402 =$</p>
<p>(4) $223 \times 869 =$</p>	<p>(5) $623 \times 922 =$</p>	<p>(6) $841 \times 898 =$</p>
<p>(7) $105 \times 913 =$</p>	<p>(8) $411 \times 877 =$</p>	<p>(9) $205 \times 133 =$</p>
<p>(10) $144 \times 211 =$</p>	<p>(11) $681 \times 340 =$</p>	<p>(12) $877 \times 460 =$</p>

Lattice multiplication with two three-digit numbers (3x3)

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

(1)

$$987 \times 654 = 645,498$$

	9	8	7	
6	5^{+1} 4	4^{+2} 8	4^{+1} 2^{+0}	6
4	4	5	4	5
5	3	6	2	4
	4	9	8	

(2)

$$698 \times 161 = 112,378$$

	6	9	8	
1	0^{+1} 6	0^{+2} 9	0^{+2} 8^{+1}	1
1	3	6	4	6
2	0	6	9	1
	3	7	8	

(3)

$$508 \times 402 = 204,216$$

	5	0	8	
2	2^{+0} 0	0^{+0} 0	3^{+0} 2^{+0}	4
0	0	0	0	0
4	1	0	0	2
	2	1	6	

(4)

$$223 \times 869 = 193,787$$

	2	2	3	
1	1^{+0} 6	1^{+1} 6	2^{+1} 4^{+1}	8
9	1	2	1	6
3	1	8	2	9
	7	8	7	

(5)

$$623 \times 922 = 574,406$$

	6	2	3	
5	5^{+0} 4	1^{+1} 8	2^{+1} 7^{+1}	9
7	1	2	0	2
4	1	2	0	2
	4	0	6	

(6)

$$841 \times 898 = 755,218$$

	8	4	1	
7	6^{+1} 4	3^{+1} 2	0^{+2} 8^{+1}	8
5	7	2	3	9
5	6	4	3	8
	2	1	8	

(7)

$$105 \times 913 = 95,865$$

	1	0	5	
0	0^{+0} 9	0^{+0} 0	4^{+0} 5^{+0}	9
9	0	1	0	1
5	0	3	0	3
	8	6	5	

(8)

$$411 \times 877 = 360,447$$

	4	1	1	
3	3^{+0} 2	0^{+2} 8	0^{+2} 8^{+1}	8
6	2	8	0	7
0	2	8	0	7
	4	4	7	

(9)

$$205 \times 133 = 27,265$$

	2	0	5	
0	0^{+0} 2	0^{+0} 0	0^{+1} 5^{+0}	1
2	0	6	0	3
7	0	6	0	3
	2	6	5	

(10)

$$144 \times 211 = 30,384$$

	1	4	4	
0	0^{+0} 2	0^{+1} 8	0^{+1} 8^{+0}	2
3	0	1	0	1
0	0	1	0	1
	3	8	4	

(11)

$$681 \times 340 = 231,540$$

	6	8	1	
2	1^{+1} 8	2^{+1} 4	0^{+0} 8^{+0}	3
3	2	4	3	4
1	0	0	0	0
	5	4	0	

(12)

$$877 \times 460 = 403,420$$

	8	7	7	
4	3^{+1} 2	2^{+2} 8	2^{+1} 8^{+0}	4
0	4	8	4	6
3	0	0	0	0
	4	2	0	