

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

Solutions are on page 2

<p>(1) $987 \times 654 = 645,498$</p>	<p>(2) $157 \times 971 =$</p>	<p>(3) $553 \times 822 =$</p>
<p>(4) $614 \times 331 =$</p>	<p>(5) $603 \times 752 =$</p>	<p>(6) $470 \times 965 =$</p>
<p>(7) $305 \times 644 =$</p>	<p>(8) $598 \times 502 =$</p>	<p>(9) $819 \times 162 =$</p>
<p>(10) $766 \times 420 =$</p>	<p>(11) $871 \times 634 =$</p>	<p>(12) $339 \times 429 =$</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} $^{+0}$ 2	6
4	4	5	4	5
5	3	6	2	4
	4	9	8	

(2)

$$157 \times 971 = 152,447$$

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

(3)

$$553 \times 822 = 454,566$$

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

(4)

$$614 \times 331 = 203,234$$

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

(5)

$$603 \times 752 = 453,456$$

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

(6)

$$470 \times 965 = 453,550$$

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

(7)

$$305 \times 644 = 196,420$$

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

(8)

$$598 \times 502 = 300,196$$

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

(9)

$$819 \times 162 = 132,678$$

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

(10)

$$766 \times 420 = 321,720$$

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

(11)

$$871 \times 634 = 552,214$$

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

(12)

$$339 \times 429 = 145,431$$

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