

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

*Solutions are on page 2*

<p>(1) <math>987 \times 654 = 645,498</math></p>	<p>(2) <math>892 \times 676 =</math></p>	<p>(3) <math>722 \times 989 =</math></p>
<p>(4) <math>628 \times 248 =</math></p>	<p>(5) <math>315 \times 212 =</math></p>	<p>(6) <math>792 \times 404 =</math></p>
<p>(7) <math>211 \times 260 =</math></p>	<p>(8) <math>302 \times 836 =</math></p>	<p>(9) <math>333 \times 582 =</math></p>
<p>(10) <math>997 \times 602 =</math></p>	<p>(11) <math>860 \times 137 =</math></p>	<p>(12) <math>430 \times 974 =</math></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)

$$892 \times 676 = 602,992$$

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

(3)

$$722 \times 989 = 714,058$$

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

(4)

$$628 \times 248 = 155,744$$

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

(5)

$$315 \times 212 = 66,780$$

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

(6)

$$792 \times 404 = 319,968$$

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

(7)

$$211 \times 260 = 54,860$$

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

(8)

$$302 \times 836 = 252,472$$

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

(9)

$$333 \times 582 = 193,806$$

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

(10)

$$997 \times 602 = 600,194$$

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

(11)

$$860 \times 137 = 117,820$$

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

(12)

$$430 \times 974 = 418,820$$

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