Distributive Grid multiplication with two- by three-digit numbers (2x3)

Solutions are on page 2

(1) 395 x 98 = 38,710

	hundreds **300**	tens **90**	ones **5**	
27,000 8,100 450	27,000	8,100	450	tens **90**
2,400 720 40	2,400	720	40	ones **8**

+_____

38,710

(2) 197 x 39 =

(3) 233 x 73 =

(4) 196 x 67 =

(5) 682 x 21 =

(6) 827 x 74 =

(7) 600 x 75 =

(8) 235 x 67 =

(9) 104 x 95 =

(10) 514 x 12 =

(11) 464 x 50 =

(12) 155 x 89 =

Distributive Grid multiplication with two- by three-digit numbers (2x3)

Also see video: 'Multiplying Multi-Digit Numbers with the Distributive Grid Method'

(1) 395 x 98 = 38,710

	hundreds	tens	ones	
	300	90	5	
27,000 8,100 450	27,000	8,100	450	tens 90
2,400 720 40	2,400	720	40	ones 8

+_____
38,710

(2) 197 x 39 = 7,683

	hundreds	tens	ones	
	100	90	7	
3,000 2,700 210	3,000	2,700	210	tens 30
900 810 63	900	810	63	ones 9

+_____
7,683

(3) 233 x 73 = 17,009

	hundreds	tens	ones	
	200	30	3	
14,000 2,100 210	14,000	2,100	210	tens 70
600 90 9	600	90	9	ones 3

+_____
17,009

(4) 196 x 67 = 13,132

	hundreds	tens	ones	
	100	90	6	
6,000 5,400 360	6,000	5,400	360	tens 60
700 630 42	700	630	42	ones 7

+_____
13,132

(5) 682 x 21 = 14,322

	hundreds	tens	ones	
	600	80	2	
12,000 1,600 40	12,000	1,600	40	tens 20
600 80 2	600	80	2	ones 1

+_____
14,322

(6) 827 x 74 = 61,198

	hundreds	tens	ones	
	800	20	7	
56,000 1,400 490	56,000	1,400	490	tens 70
3,200 80 28	3,200	80	28	ones 4

+_____
61,198

(7) 600 x 75 = 45,000

	hundreds	tens	ones	
	600	0	0	
42,000 0 0	42,000	0	0	tens 70
3,000 0 0	3,000	0	0	ones 5

+_____
45,000

(8) 235 x 67 = 15,745

	hundreds	tens	ones	
	200	30	5	
12,000 1,800 300	12,000	1,800	300	tens 60
1,400 210 35	1,400	210	35	ones 7

+_____
15,745

(9) 104 x 95 = 9,880

	hundreds	tens	ones	
	100	0	4	
9,000 0 360	9,000	0	360	tens 90
500 0 20	500	0	20	ones 5

+_____
9,880

(10) 514 x 12 = 6,168

	hundreds	tens	ones	
	500	10	4	
5,000 100 40	5,000	100	40	tens 10
1,000 20 8	1,000	20	8	ones 2

+_____
6,168

(11) 464 x 50 = 23,200

	hundreds	tens	ones	
	400	60	4	
20,000 3,000 200	20,000	3,000	200	tens 50
0 0 0	0	0	0	ones 0

+_____
23,200

(12) 155 x 89 = 13,795

	hundreds	tens	ones	
	100	50	5	
8,000 4,000 400	8,000	4,000	400	tens 80
900 450 45	900	450	45	ones 9

+_____
13,795