

Multiplying large numbers using the lattice method

Multiply each number in the column by each number in the row. Then you add along the diagonals to get the answer.

Example: 32×6

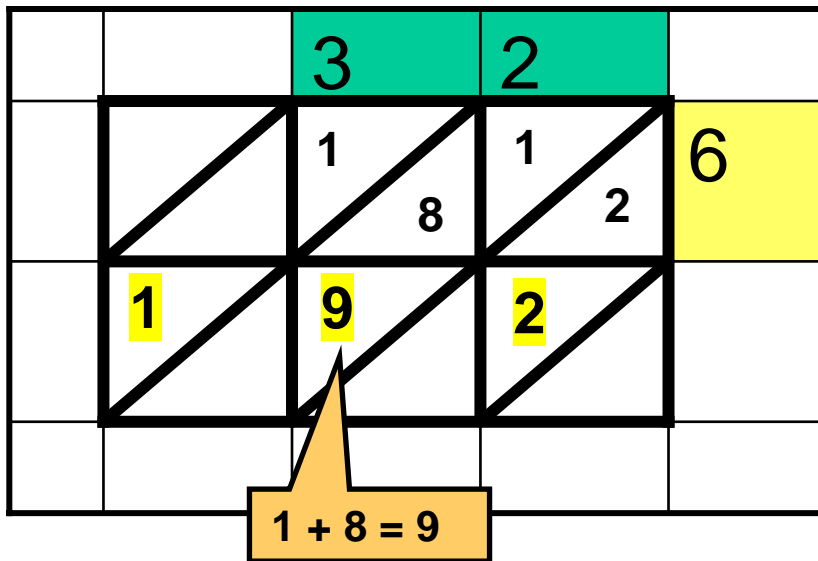
1) Make a grid. Split the 32 into a 3 and a 2, and place each digit at the top of the columns as shown. Put the 6 by the top row.

		3	2	
				6

2) Multiply the columns by the rows. If the answer is a 2-digit number write one digit on each side of the diagonal line.

		3	2	
				6
		1	1	
		8	2	

3) Finally, add up the diagonal 'columns'.



$$32 \times 6 = 192$$

Not sure of the method? Try these first	Feeling ok with the method? Try these	Feeling very confident with the method? Try these
a. 62 x 3	g. 65 x 20	m. 510 x 21
b. 15 x 4	h. 34 x 15	n. 245 x 33
c. 27 x 3	i. 51 x 55	o. 350 x 29
d. 45 x 6	j. 13 x 67	p. 154 x 83
e. 63 x 9	k. 89 x 36	q. 768 x 96
f. 98 x 7	l. 78 x 56	r. 829 x 79

Answers

Not sure of the method?	Feeling ok with the method?	Feeling very confident with the method?
a. 186	g. 1300	m. 10710
b. 60	h. 510	n. 8085
c. 81	i. 2805	o. 10150
d. 270	j. 871	p. 12782
e. 567	k. 3204	q. 73728
f. 686	l. 4368	r. 65491