

HOW TO COMPUTE THE 2-DIGITS PRODUCT (ALGORITHM BASED ON NUMBERS – ABN):

Although most of the students use option A to compute the product of numbers with two digits (in which only one factor is decomposed), there are some of them that do not control yet that way and prefer to decompose both factors (as in option B).

OPTION A:

1º		14	To multiply 32×14 , the first number is decomposed
	30		
	2		

2º		14	The product of 30 and 14 is computed
	30	420	
	2		

3º		14	The product of 2 and 14 is computed
	30	420	
	2	28	

4º		14	Numbers 420 and 28 are added
	30	420	
	2	28	
		448	

OPTION B:

1º		10	4	To multiply 32×14 , both numbers are decomposed
	30			
	2			

2º		10	4	The products 30×10 and 30×4 are computed
	30	300	120	
	2			

3º

	10	4	
30	300	120	420
2			

Numbers 300 and 120 are added

4º

	10	4	
30	300	120	420
2	20	8	

The products 2×20 and 2×4 are computed

5º

	10	4	
30	300	120	420
2	20	8	28

Numbers 20 and 8 are added

6º

	10	4	
30	300	120	420
2	20	8	28
			428

Finally, numbers in the last column are added.