Name: .... Class: ....

Box multiplication

Use the box method to find the product of the following expressions.

1. 16 x 28 = _____

2. 99 x 21 = _____

3. 99 x 58 = _____

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Use the box method to find the product of the following expressions.

1. 16 x 28 = _____

Let's first of all express each value in the expression according to their place values.

16 x 28 = (10 + 6) x (20 + 8)

Now, let's draw a box.

	28	
	20 + 8	
10		
16		
+		
6		

Here, we draw the box andd place the values

	28	
	20 + 8	
10	200	80
16		
+		
6	120	48

Here, we multiply the side lengths of each box

	28		Results
	20 + 8		
10	200	80	= 280
16			+
+			
6	120	48	= 168
			448

Here, We add the values in each row

2. 99 x 21 = _____

	21	
	20 + 1	
90		
99		
+		
9		

	21	
	20 + 1	
90	1,800	90
99		
+		
9	180	9

	21		Results
	20 + 1		
90	1,800	90	= 1,890
99			+
+			
9	180	9	= 189
			2,079

3. 99 x 58 = _____

	58	
	50 + 8	
40		
42		
+		
2		

	58	
	50 + 8	
40	2,000	320
42		
+		
2	100	16

	58		Results
	50 + 8		
40	2,000	320	= 2,320
42			+
+			
2	100	16	= 116
			2,436