Multiplication using a grid - triple digit x double digit

NAME: _____

Here's a new method for you to try!

My problem is: 145 x 13 = ?

Step one:

Break the numbers up into their different parts.

145 = 100 + 40 + 5

13 = 10 + 3

Step two:

Fill the numbers onto a grid like this.

x	100	40	5
10			
3			

Step 3:

Begin to cross multiply each number filling the answer into the grid.

(This is just like filling in a multiplication square.)

x	100	40	5
10	1000	400	50
3	300	120	15

Step 4:

Add up each row of numbers and put your total at the side of the column.

x	100	40	5	
	1000	400	50	1450
3	300	120	15	435

Step 5:

Simply add the two numbers together to get your final answer.

1 4 5 0

+ 4 3 5 **How easy is that?**

1 8 8 5

Therefore:

145 x 13 = 1885

Challenge!

Can you use this new method to solve the problem below?

134 x 15 = ?

Draw a grid to solve the following problems:

145 X 67 =	267 X 19 =
142 X 12 =	243 X 15 =
156 X 14 =	262 X 15 =
142 X 15 =	193 X 13 =

Well done!

Lucy Cameron

Multiplication using a grid

ANSWERS

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1 4 5 0
+ 4 3 5
1 8 8 5

How easy is that?

Therefore:

145 x 13 = 1885

Challenge!

Can you use this new method to solve the problem below?

134 x 15 = ?

Draw a grid to solve the following problems:

145 X 67 = 9715

X	100	40	5
60	6000	2400	300
7	700	280	35

8700 + 1015 =

267 X 19 = 5073

X	200	60	7
10	2000	600	70
9	1800	540	63

2670 + 2403 =

142 X 12 = 1704

X	100	40	2
10	1000	400	20
2	200	80	4

1420 + 284 =

243 X 15 = 3645

X	200	40	3
10	2000	400	30
5	1000	200	15

2430 + 1215 =

156 X 14 = 2184

X	100	50	6
10	1000	500	60
4	400	200	24

1560 + 624 =

262 X 15 = 3930

X	200	60	2
10	2000	600	20
5	1000	300	10

2620 + 1310 =

142 X 15 = 2130

X	100	40	2
10	1000	400	20
5	500	200	10

1420 + 710 =

193 X 13 = 2509

X	100	90	3
10	1000	900	30
3	300	270	9

1930 + 579 =

Well done!