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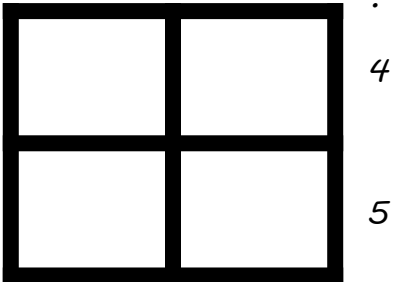
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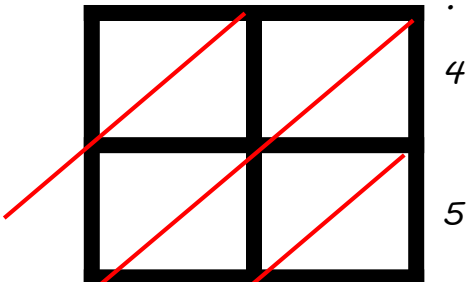


MULTIPLYING DECIMALS WITH LATTICE INTERACTIVE NOTEBOOK

1. Begin by drawing boxes based on the number of digits in each number.
 - The problem I will be solving is $2.3 \times .45$. There are two digits in the first number and two digits in the second number. So I will draw a two by two box.

$2.3 \times .45$	Your Turn: $4.5 \times .32$
<p style="text-align: center;">2 . 3</p> 	

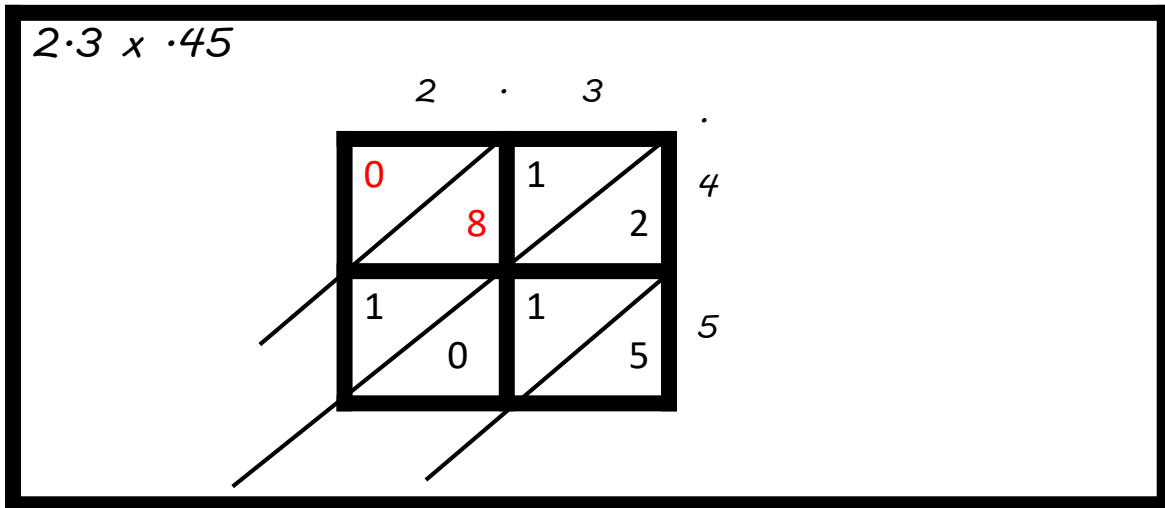
2. Next, we write one of the factors at the top of the box, and the other factor going down the right side.
3. Then we will draw lines through each square starting in the right top corner and moving to the bottom left corner.

$2.3 \times .45$	Your Turn: $4.5 \times .32$
<p style="text-align: center;">2 . 3</p> 	

3. Now multiply the digit above a square and to the right of the square. Place the number in the tens place above the diagonal line, and the number in the ones below the diagonal line.

(As you can see in the example below, I will multiply $2 \times 4 = 8$. There is not a number in the tens place so I place a 0 at the top, and the eight at the bottom.)

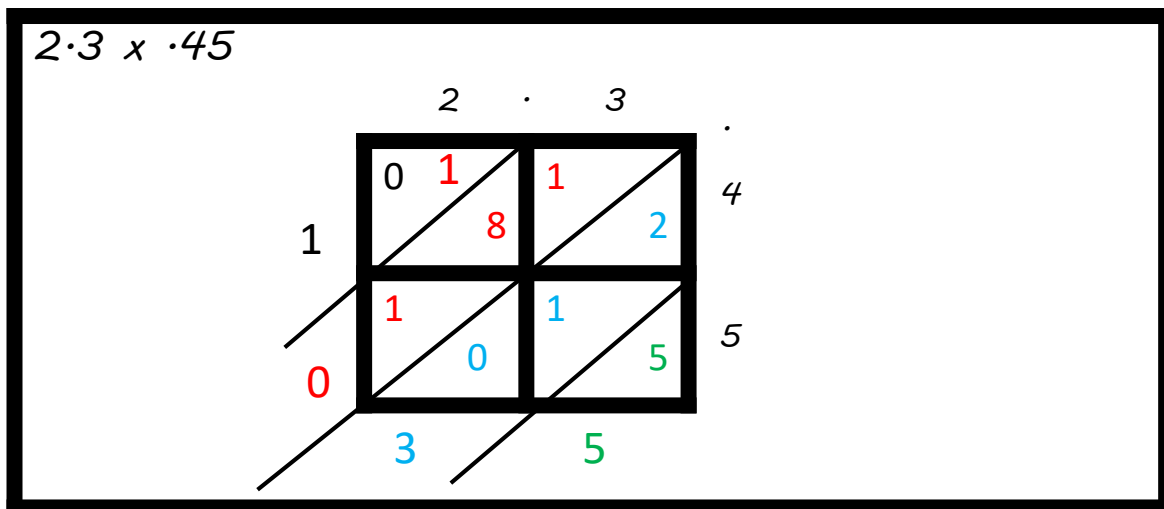
Do this on your lattice grid that you created on the first page.



4. We are almost done!!! It is time to add up the digits we got when we multiplied. To do this we add up all the digits in the diagonal lines, and write the answer below or to the side of the box.

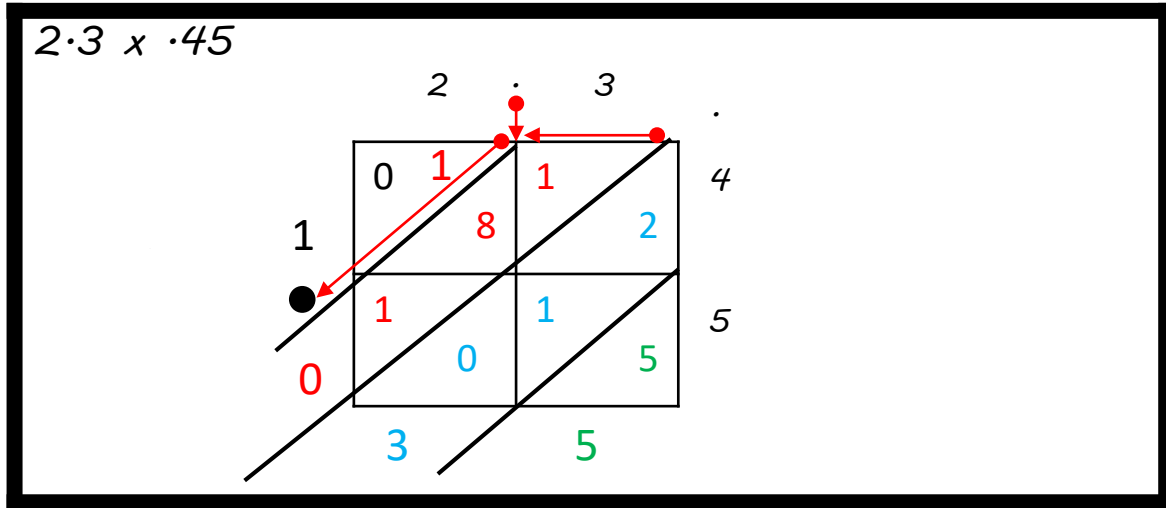
(For the digits in red, $1 + 8 + 1 = 10$. So I place the 0 in the diagonal lines and carry the 1 to the next set of diagonal lines.)

Do this on your lattice grid that you created on the first page.



5. It is time to figure out where the decimal goes. You can do this by placing one finger on the top decimal. This finger will move down. Place another finger on the other decimal. This finger will move to the left. Move them till they meet. Then follow that diagonal line down, and this is where the decimal goes.

Do this on your lattice grid that you created on the first page.



4. Finally, it is time to get the answer. We start on the top left and move around the box.

Our answer is 1.035