

# MULTIPLICATION USING A GRID - DOUBLE DIGIT X DOUBLE DIGIT

NAME: \_\_\_\_\_

**Here's a new method for you to try!**

My problem is:  $45 \times 13 = ?$

**Step one:**  
Break the numbers up into their different parts.  
 $45 = 40 + 5$   
 $13 = 10 + 3$

**Step two:**  
Fill the numbers onto a grid like this.

x	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	40	5	
10	400	50	
3	120	15	

**Step 4:**  
Add up each row of numbers and put your total at the side of the column.

x	40	5	
10	400	50	450
3	120	15	135

**Step 5:**  
Simply add the two numbers together to get your final answer.

450	
+ 135	How easy is that?
-----	
585	

Therefore:  
 $45 \times 13 = 585$

**Challenge!**  
Can you use this new method to solve the problem below?  
  
 $134 \times 15 = ?$

Draw a grid to solve the following problems:

$45 \times 67 =$	$67 \times 19 =$
$42 \times 12 =$	$43 \times 15 =$
$56 \times 14 =$	$62 \times 15 =$
$42 \times 15 =$	$93 \times 13 =$

WELL DONE!

# MULTIPLICATION USING A GRID - DOUBLE DIGIT X DOUBLE DIGIT

## ANSWERS

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x	40	5		
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**Step 5:**  
Simply add the two numbers together to get your final answer.

450
+ 135
<hr style="width: 100px; margin-left: 0;"/> 585

How easy is that?

Therefore:  
 $45 \times 13 = 585$

**Challenge!**  
Can you use this new method to solve the problem below?  
 $134 \times 15 = ?$

Draw a grid to solve the following problems:

<p><math>45 \times 67 = 3015</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>40</td><td>5</td></tr> <tr><td>60</td><td>2400</td><td>300</td></tr> <tr><td>7</td><td>280</td><td>35</td></tr> </table> <p><math>2700 + 315 =</math></p>	X	40	5	60	2400	300	7	280	35	<p><math>67 \times 19 = 1273</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>60</td><td>7</td></tr> <tr><td>10</td><td>600</td><td>70</td></tr> <tr><td>9</td><td>540</td><td>63</td></tr> </table> <p><math>670 + 603 =</math></p>	X	60	7	10	600	70	9	540	63
X	40	5																	
60	2400	300																	
7	280	35																	
X	60	7																	
10	600	70																	
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<p><math>42 \times 12 = 504</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>40</td><td>2</td></tr> <tr><td>10</td><td>400</td><td>20</td></tr> <tr><td>2</td><td>80</td><td>4</td></tr> </table> <p><math>420 + 84 =</math></p>	X	40	2	10	400	20	2	80	4	<p><math>43 \times 15 = 645</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>40</td><td>3</td></tr> <tr><td>10</td><td>400</td><td>30</td></tr> <tr><td>5</td><td>200</td><td>15</td></tr> </table> <p><math>430 + 215 =</math></p>	X	40	3	10	400	30	5	200	15
X	40	2																	
10	400	20																	
2	80	4																	
X	40	3																	
10	400	30																	
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<p><math>56 \times 14 = 784</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>50</td><td>6</td></tr> <tr><td>10</td><td>500</td><td>60</td></tr> <tr><td>4</td><td>200</td><td>24</td></tr> </table> <p><math>560 + 224 =</math></p>	X	50	6	10	500	60	4	200	24	<p><math>62 \times 15 = 930</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>60</td><td>2</td></tr> <tr><td>10</td><td>600</td><td>20</td></tr> <tr><td>5</td><td>300</td><td>10</td></tr> </table> <p><math>620 + 310 =</math></p>	X	60	2	10	600	20	5	300	10
X	50	6																	
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<p><math>42 \times 15 = 630</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>40</td><td>2</td></tr> <tr><td>10</td><td>400</td><td>20</td></tr> <tr><td>5</td><td>200</td><td>10</td></tr> </table> <p><math>420 + 210 =</math></p>	X	40	2	10	400	20	5	200	10	<p><math>93 \times 13 = 1209</math></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr><td>X</td><td>90</td><td>3</td></tr> <tr><td>10</td><td>900</td><td>30</td></tr> <tr><td>3</td><td>270</td><td>9</td></tr> </table> <p><math>930 + 279 =</math></p>	X	90	3	10	900	30	3	270	9
X	40	2																	
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WELL DONE!