


EASY MULTIPLICATION USING A GRID - DOUBLE DIGIT X SINGLE DIGIT

NAME: _____

<p>Here's a new method for you to try!</p> <p>My problem is: $45 \times 3 = ?$</p> <p>Step one: Break the numbers up into their different parts. $45 = 40 + 5$ $3 = 3$</p> <p>Step two: Fill the numbers onto a grid like this.</p> <table><tr><td>x</td><td>40</td><td>5</td><td></td></tr><tr><td>3</td><td></td><td></td><td></td></tr></table>	x	40	5		3				<p>Step 3: Begin to cross multiply each number filling the answer into the grid. (This is just like filling in a multiplication square.)</p> <table><tr><td>x</td><td>40</td><td>5</td><td></td></tr><tr><td>3</td><td>120</td><td>15</td><td></td></tr></table> <p>Step 4: Add up each row of numbers and put your total at the side of the column.</p> <table><tr><td>x</td><td>40</td><td>5</td><td></td></tr><tr><td></td><td>120</td><td>15</td><td>135</td></tr></table> 	x	40	5		3	120	15		x	40	5			120	15	135	<p>Therefore</p> $45 \times 3 = 135$
x	40	5																								
3																										
x	40	5																								
3	120	15																								
x	40	5																								
	120	15	135																							

Draw a grid to solve the following problems:

$45 \times 7 =$	$67 \times 9 =$
$42 \times 2 =$	$43 \times 5 =$
$56 \times 4 =$	$62 \times 5 =$
$42 \times 5 =$	$93 \times 3 =$

Well done!

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ANSWERS

Here's a new method for you to try!

My problem is: $45 \times 3 = ?$

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

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

x	40	5	
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	
3	120	15	

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

x	40	5	
	120	15	135

Therefore

$45 \times 3 = 135$

Draw a grid to solve the following problems:

<p>$45 \times 7 = 315$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">40</td> <td style="width: 33%;">5</td> </tr> <tr> <td>7</td> <td>280</td> <td>35</td> </tr> </table> <p>$280 + 35 = 315$</p>	x	40	5	7	280	35	<p>$67 \times 9 = 603$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">60</td> <td style="width: 33%;">7</td> </tr> <tr> <td>9</td> <td>540</td> <td>63</td> </tr> </table> <p>$540 + 63 =$</p>	x	60	7	9	540	63
x	40	5											
7	280	35											
x	60	7											
9	540	63											
<p>$42 \times 2 = 84$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">40</td> <td style="width: 33%;">2</td> </tr> <tr> <td>2</td> <td>80</td> <td>4</td> </tr> </table> <p>$80 + 4 =$</p>	x	40	2	2	80	4	<p>$43 \times 5 = 215$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">40</td> <td style="width: 33%;">3</td> </tr> <tr> <td>5</td> <td>200</td> <td>15</td> </tr> </table> <p>$200 + 15 =$</p>	x	40	3	5	200	15
x	40	2											
2	80	4											
x	40	3											
5	200	15											
<p>$56 \times 4 = 224$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">50</td> <td style="width: 33%;">6</td> </tr> <tr> <td>4</td> <td>200</td> <td>24</td> </tr> </table> <p>$200 + 24 =$</p>	x	50	6	4	200	24	<p>$62 \times 5 = 310$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">60</td> <td style="width: 33%;">2</td> </tr> <tr> <td>5</td> <td>300</td> <td>10</td> </tr> </table> <p>$300 + 10 =$</p>	x	60	2	5	300	10
x	50	6											
4	200	24											
x	60	2											
5	300	10											
<p>$42 \times 5 = 210$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">40</td> <td style="width: 33%;">2</td> </tr> <tr> <td>5</td> <td>200</td> <td>10</td> </tr> </table> <p>$200 + 10 =$</p>	x	40	2	5	200	10	<p>$93 \times 3 = 279$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">x</td> <td style="width: 33%;">90</td> <td style="width: 33%;">3</td> </tr> <tr> <td>3</td> <td>270</td> <td>9</td> </tr> </table> <p>$270 + 9 =$</p>	x	90	3	3	270	9
x	40	2											
5	200	10											
x	90	3											
3	270	9											

WELL DONE!