

# Distributive Grid multiplication with two two-digit numbers (2x2)

*Solutions are on page 2*

<p>(1) <math>37 \times 49 = 1,813</math></p> <table border="1"><tr><td></td><td>tens</td><td>ones</td><td></td></tr><tr><td></td><td>30</td><td>7</td><td></td></tr><tr><td>1,200</td><td>1,200</td><td>280</td><td>tens</td></tr><tr><td>280</td><td></td><td></td><td>40</td></tr><tr><td>270</td><td>270</td><td>63</td><td>ones</td></tr><tr><td>63</td><td></td><td></td><td>9</td></tr></table> <p>+ _____</p> <p>1,813</p>		tens	ones			30	7		1,200	1,200	280	tens	280			40	270	270	63	ones	63			9	<p>(2) <math>64 \times 45 =</math></p>	<p>(3) <math>60 \times 75 =</math></p>
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<p>(4) <math>32 \times 84 =</math></p>	<p>(5) <math>38 \times 13 =</math></p>	<p>(6) <math>53 \times 32 =</math></p>																								
<p>(7) <math>25 \times 48 =</math></p>	<p>(8) <math>36 \times 39 =</math></p>	<p>(9) <math>64 \times 35 =</math></p>																								
<p>(10) <math>34 \times 29 =</math></p>	<p>(11) <math>48 \times 86 =</math></p>	<p>(12) <math>92 \times 83 =</math></p>																								

# Distributive Grid multiplication with two two-digit numbers (2x2)

Also see video: *'Multiplying Multi-Digit Numbers with the Distributive Grid Method'*

<p>(1) <math>37 \times 49 = 1,813</math></p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 0 5px;">tens</td> <td style="text-align: center; padding: 0 5px;">ones</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="text-align: center; padding: 0 5px;">30</td> <td style="text-align: center; padding: 0 5px;">7</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="padding: 5px;">1,200</td> <td style="border: 1px solid black; padding: 5px;">1,200</td> <td style="border: 1px solid black; padding: 5px;">280</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">tens</td> </tr> <tr> <td style="padding: 5px;">280</td> <td style="border: 1px solid black; padding: 5px;">270</td> <td style="border: 1px solid black; padding: 5px;">63</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">40</td> </tr> <tr> <td style="padding: 5px;">270</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">ones</td> </tr> <tr> <td style="padding: 5px;">63</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">9</td> </tr> <tr> <td style="padding: 5px;">+ _____</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> <tr> <td style="padding: 5px;">1,813</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> </table>	tens	ones				30	7				1,200	1,200	280		tens	280	270	63		40	270				ones	63				9	+ _____					1,813					<p>(2) <math>64 \times 45 = 2,880</math></p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 0 5px;">tens</td> <td style="text-align: center; padding: 0 5px;">ones</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="text-align: center; padding: 0 5px;">60</td> <td style="text-align: center; padding: 0 5px;">4</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="padding: 5px;">2,400</td> <td style="border: 1px solid black; padding: 5px;">2,400</td> <td style="border: 1px solid black; padding: 5px;">160</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">tens</td> </tr> <tr> <td style="padding: 5px;">160</td> <td style="border: 1px solid black; padding: 5px;">300</td> <td style="border: 1px solid black; padding: 5px;">20</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">40</td> </tr> <tr> <td style="padding: 5px;">300</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">ones</td> </tr> <tr> <td style="padding: 5px;">20</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">+ _____</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> <tr> <td style="padding: 5px;">2,880</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> </table>	tens	ones				60	4				2,400	2,400	160		tens	160	300	20		40	300				ones	20				5	+ _____					2,880					<p>(3) <math>60 \times 75 = 4,500</math></p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 0 5px;">tens</td> <td style="text-align: center; padding: 0 5px;">ones</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="text-align: center; padding: 0 5px;">60</td> <td style="text-align: center; padding: 0 5px;">0</td> <td colspan="2"></td> <td></td> </tr> <tr> <td style="padding: 5px;">4,200</td> <td style="border: 1px solid black; padding: 5px;">4,200</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">tens</td> </tr> <tr> <td style="padding: 5px;">0</td> <td style="border: 1px solid black; padding: 5px;">300</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="padding: 5px;"></td> <td style="padding: 5px;">70</td> </tr> <tr> <td style="padding: 5px;">300</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">ones</td> </tr> <tr> <td style="padding: 5px;">0</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">+ _____</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> <tr> <td style="padding: 5px;">4,500</td> <td colspan="2"></td> <td style="padding: 5px;"></td> <td></td> </tr> </table>	tens	ones				60	0				4,200	4,200	0		tens	0	300	0		70	300				ones	0				5	+ _____					4,500				
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