

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

Solutions are on page 2

<p>(1) $37 \times 49 = 1,813$</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) $24 \times 67 =$</p>	<p>(3) $46 \times 97 =$</p>
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1,200	1,200	280	tens																							
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<p>(4) $40 \times 64 =$</p>	<p>(5) $52 \times 56 =$</p>	<p>(6) $45 \times 67 =$</p>																								
<p>(7) $13 \times 77 =$</p>	<p>(8) $43 \times 86 =$</p>	<p>(9) $37 \times 22 =$</p>																								
<p>(10) $62 \times 77 =$</p>	<p>(11) $99 \times 79 =$</p>	<p>(12) $51 \times 96 =$</p>																								

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

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

<p>(1) $37 \times 49 = 1,813$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">7</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">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="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">280</td> <td></td> <td></td> <td style="text-align: left;">40</td> </tr> <tr> <td style="text-align: right;">270</td> <td style="border: 1px solid black; padding: 5px;">270</td> <td style="border: 1px solid black; padding: 5px;">63</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">63</td> <td></td> <td></td> <td style="text-align: left;">9</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">1,813</p>	tens	ones			30	7			1,200	1,200	280	tens	280			40	270	270	63	ones	63			9	<p>(2) $24 \times 67 = 1,608$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">4</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">1,200</td> <td style="border: 1px solid black; padding: 5px;">1,200</td> <td style="border: 1px solid black; padding: 5px;">240</td> <td style="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">240</td> <td></td> <td></td> <td style="text-align: left;">60</td> </tr> <tr> <td style="text-align: right;">140</td> <td style="border: 1px solid black; padding: 5px;">140</td> <td style="border: 1px solid black; padding: 5px;">28</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">28</td> <td></td> <td></td> <td style="text-align: left;">7</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">1,608</p>	tens	ones			20	4			1,200	1,200	240	tens	240			60	140	140	28	ones	28			7	<p>(3) $46 \times 97 = 4,462$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">6</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">3,600</td> <td style="border: 1px solid black; padding: 5px;">3,600</td> <td style="border: 1px solid black; padding: 5px;">540</td> <td style="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">540</td> <td></td> <td></td> <td style="text-align: left;">90</td> </tr> <tr> <td style="text-align: right;">280</td> <td style="border: 1px solid black; padding: 5px;">280</td> <td style="border: 1px solid black; padding: 5px;">42</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">42</td> <td></td> <td></td> <td style="text-align: left;">7</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">4,462</p>	tens	ones			40	6			3,600	3,600	540	tens	540			90	280	280	42	ones	42			7
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<p>(4) $40 \times 64 = 2,560$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">2,400</td> <td style="border: 1px solid black; padding: 5px;">2,400</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">0</td> <td></td> <td></td> <td style="text-align: left;">60</td> </tr> <tr> <td style="text-align: right;">160</td> <td style="border: 1px solid black; padding: 5px;">160</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">0</td> <td></td> <td></td> <td style="text-align: left;">4</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">2,560</p>	tens	ones			40	0			2,400	2,400	0	tens	0			60	160	160	0	ones	0			4	<p>(5) $52 \times 56 = 2,912$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">2</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">2,500</td> <td style="border: 1px solid black; padding: 5px;">2,500</td> <td style="border: 1px solid black; padding: 5px;">100</td> <td style="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">100</td> <td></td> <td></td> <td style="text-align: left;">50</td> </tr> <tr> <td style="text-align: right;">300</td> <td style="border: 1px solid black; padding: 5px;">300</td> <td style="border: 1px solid black; padding: 5px;">12</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">12</td> <td></td> <td></td> <td style="text-align: left;">6</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">2,912</p>	tens	ones			50	2			2,500	2,500	100	tens	100			50	300	300	12	ones	12			6	<p>(6) $45 \times 67 = 3,015$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">tens</td> <td style="text-align: center;">ones</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">5</td> <td></td> <td></td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">2,400</td> <td style="border: 1px solid black; padding: 5px;">2,400</td> <td style="border: 1px solid black; padding: 5px;">300</td> <td style="text-align: left;">tens</td> </tr> <tr> <td style="text-align: right;">300</td> <td></td> <td></td> <td style="text-align: left;">60</td> </tr> <tr> <td style="text-align: right;">280</td> <td style="border: 1px solid black; padding: 5px;">280</td> <td style="border: 1px solid black; padding: 5px;">35</td> <td style="text-align: left;">ones</td> </tr> <tr> <td style="text-align: right;">35</td> <td></td> <td></td> <td style="text-align: left;">7</td> </tr> </table> <p style="margin-left: auto; margin-right: auto;">+ _____</p> <p style="margin-left: auto; margin-right: auto;">3,015</p>	tens	ones			40	5			2,400	2,400	300	tens	300			60	280	280	35	ones	35			7
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