

# Distributive Grid multiplication with two three-digit numbers (3x3)

*Solutions are on page 2*

<p>(1) <math>927 \times 365 = 338,355</math></p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">hundreds</th> <th style="text-align: center;">tens</th> <th style="text-align: center;">ones</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">900</td> <td style="text-align: center;">20</td> <td style="text-align: center;">7</td> <td></td> </tr> <tr> <td style="text-align: right;">270,000</td> <td style="border: 1px solid black; text-align: center;">270,000</td> <td style="border: 1px solid black; text-align: center;">6,000</td> <td style="border: 1px solid black; text-align: center;">2,100</td> <td style="text-align: right;">hundreds <b>300</b></td> </tr> <tr> <td style="text-align: right;">6,000</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="text-align: right;">tens <b>60</b></td> </tr> <tr> <td style="text-align: right;">2,100</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="text-align: right;">ones <b>5</b></td> </tr> <tr> <td style="text-align: right;">54,000</td> <td style="border: 1px solid black; text-align: center;">54,000</td> <td style="border: 1px solid black; text-align: center;">1,200</td> <td style="border: 1px solid black; text-align: center;">420</td> <td></td> </tr> <tr> <td style="text-align: right;">1,200</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td></td> </tr> <tr> <td style="text-align: right;">420</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td></td> </tr> <tr> <td style="text-align: right;">4,500</td> <td style="border: 1px solid black; text-align: center;">4,500</td> <td style="border: 1px solid black; text-align: center;">100</td> <td style="border: 1px solid black; text-align: center;">35</td> <td></td> </tr> <tr> <td style="text-align: right;">100</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td></td> </tr> <tr> <td style="text-align: right;">35</td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td style="border: 1px solid black;"></td> <td></td> </tr> <tr> <td style="text-align: right;">+ _____</td> <td colspan="3"></td> <td></td> </tr> <tr> <td style="text-align: right;">338,355</td> <td colspan="3"></td> <td></td> </tr> </tbody> </table>		hundreds	tens	ones			900	20	7		270,000	270,000	6,000	2,100	hundreds <b>300</b>	6,000				tens <b>60</b>	2,100				ones <b>5</b>	54,000	54,000	1,200	420		1,200					420					4,500	4,500	100	35		100					35					+ _____					338,355					<p>(2) <math>185 \times 196 =</math></p>	<p>(3) <math>510 \times 516 =</math></p>
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Also see video: *'Multiplying Multi-Digit Numbers with the Distributive Grid Method'*

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<p>(7) <math>351 \times 122 = 42,822</math></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 10%; text-align: center;">hundreds</th> <th style="width: 10%; text-align: center;">tens</th> <th style="width: 10%; text-align: center;">ones</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;"><b>300</b></td> <td style="text-align: center;"><b>50</b></td> <td style="text-align: center;"><b>1</b></td> <td></td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">30,000 5,000 100</td> <td style="border: 1px solid black; padding: 5px;">30,000</td> <td style="border: 1px solid black; padding: 5px;">5,000</td> <td style="border: 1px solid black; padding: 5px;">100</td> <td style="border-right: 1px solid black; padding-right: 5px;">hundreds</td> <td style="text-align: center;"><b>100</b></td> </tr> <tr> <td style="border-right: 1px solid black; 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