

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

Solutions are on page 2

<p>(1) $927 \times 365 = 338,355$</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 300</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 60</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 5</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 300	6,000				tens 60	2,100				ones 5	54,000	54,000	1,200	420		1,200					420					4,500	4,500	100	35		100					35					+ _____					338,355					<p>(2) $704 \times 731 =$</p>	<p>(3) $120 \times 440 =$</p>
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Also see video: *'Multiplying Multi-Digit Numbers with the Distributive Grid Method'*

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padding: 5px;">4,000</td> <td style="border: 1px solid black; padding: 5px;">720</td> <td style="border-right: 1px solid black; padding-right: 5px;">tens 80</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">0 0 0</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="border: 1px solid black; padding: 5px;">0</td> <td style="border-right: 1px solid black; padding-right: 5px;">ones 0</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">+ _____</td> <td colspan="3"></td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">460,320</td> <td colspan="3"></td> <td></td> </tr> </tbody> </table>		hundreds	tens	ones			900	50	9		360,000 20,000 3,600	360,000	20,000	3,600	hundreds 400	72,000 4,000 720	72,000	4,000	720	tens 80	0 0 0	0	0	0	ones 0	+ _____					460,320					<p>(9) $894 \times 861 = 769,734$</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 33%; 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