

Distributive Grid multiplication with two- by three-digit numbers (2x3)

Solutions are on page 2

| <p>(1) $395 \times 98 = 38,710$</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;">300</td> <td style="text-align: center;">90</td> <td style="text-align: center;">5</td> <td></td> </tr> <tr> <td style="text-align: right;">27,000</td> <td style="border: 1px solid black; text-align: center;">27,000</td> <td style="border: 1px solid black; text-align: center;">8,100</td> <td style="border: 1px solid black; text-align: center;">450</td> <td style="text-align: right;">tens</td> </tr> <tr> <td style="text-align: right;">8,100</td> <td></td> <td></td> <td></td> <td style="text-align: right;">90</td> </tr> <tr> <td style="text-align: right;">450</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">2,400</td> <td style="border: 1px solid black; text-align: center;">2,400</td> <td style="border: 1px solid black; text-align: center;">720</td> <td style="border: 1px solid black; text-align: center;">40</td> <td style="text-align: right;">ones</td> </tr> <tr> <td style="text-align: right;">720</td> <td></td> <td></td> <td></td> <td style="text-align: right;">8</td> </tr> <tr> <td style="text-align: right;">40</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">+</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">38,710</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | hundreds | tens | ones | | | 300 | 90 | 5 | | 27,000 | 27,000 | 8,100 | 450 | tens | 8,100 | | | | 90 | 450 | | | | | 2,400 | 2,400 | 720 | 40 | ones | 720 | | | | 8 | 40 | | | | | + | | | | | | | | | | 38,710 | | | | | <p>(2) $217 \times 92 =$</p> | <p>(3) $981 \times 81 =$</p> |
|---|--|--|------|------|--|--|-----|----|---|--|--------|--------|-------|-----|------|-------|--|--|--|----|-----|--|--|--|--|-------|-------|-----|----|------|-----|--|--|--|---|----|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--------|--|--|--|--|---|---|
| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300 | 90 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27,000 | 27,000 | 8,100 | 450 | tens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8,100 | | | | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,400 | 2,400 | 720 | 40 | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 720 | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38,710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(4) $603 \times 16 =$</p> | <p>(5) $699 \times 37 =$</p> | <p>(6) $442 \times 86 =$</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(7) $492 \times 37 =$</p> | <p>(8) $994 \times 51 =$</p> | <p>(9) $874 \times 77 =$</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(10) $837 \times 78 =$</p> | <p>(11) $343 \times 47 =$</p> | <p>(12) $114 \times 97 =$</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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|---|------------|-----------|----------|-------------------|--|--|------------|-----------|----------|--|------------------------|--------|-------|-----|-------------------|--------------------|-------|-----|----|------------------|---------|--|--|--|--|--------|--|--|--|--|---|--|----------|------|------|--|--|------------|-----------|----------|--|------------------------|--------|-------|-----|-------------------|--------------------|-------|-----|----|------------------|---------|--|--|--|--|--------|--|--|--|--|--|--|----------|------|------|--|--|------------|-----------|----------|--|------------------------|--------|-------|-----|-------------------|--------------------|-------|-----|----|------------------|---------|--|--|--|--|--------|--|--|--|--|
| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300 | 90 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27,000 8,100 450 | 27,000 | 8,100 | 450 | tens 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,400 720 40 | 2,400 | 720 | 40 | ones 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 38,710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 200 | 10 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18,000 900 630 | 18,000 | 900 | 630 | tens 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 20 14 | 400 | 20 | 14 | ones 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19,964 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 900 | 80 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72,000 6,400 80 | 72,000 | 6,400 | 80 | tens 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 80 1 | 900 | 80 | 1 | ones 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79,461 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 600 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6,000 0 30 | 6,000 | 0 | 30 | tens 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,600 0 18 | 3,600 | 0 | 18 | ones 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9,648 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 600 | 90 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18,000 2,700 270 | 18,000 | 2,700 | 270 | tens 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,200 630 63 | 4,200 | 630 | 63 | ones 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25,863 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 32,000 3,200 160 | 32,000 | 3,200 | 160 | tens 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,400 240 12 | 2,400 | 240 | 12 | ones 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 38,012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(7) $492 \times 37 = 18,204$</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> <th style="width: 33%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">400</td> <td style="text-align: center;">90</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">12,000 2,700 60</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">12,000</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">2,700</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">60</td> <td style="border-left: 1px solid black; padding-left: 5px; text-align: center;">tens 30</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">2,800 630 14</td> <td style="border: 1px solid black; 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padding-left: 5px; text-align: center;">ones 1</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;">50,694</td> <td colspan="3"></td> <td></td> </tr> </tbody> </table> | | hundreds | tens | ones | | | 900 | 90 | 4 | | 45,000 4,500 200 | 45,000 | 4,500 | 200 | tens 50 | 900 90 4 | 900 | 90 | 4 | ones 1 | + _____ | | | | | 50,694 | | | | | <p>(9) $874 \times 77 = 67,298$</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> <th style="width: 33%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">800</td> <td style="text-align: center;">70</td> <td style="text-align: center;">4</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; 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| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12,000 2,700 60 | 12,000 | 2,700 | 60 | tens 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,800 630 14 | 2,800 | 630 | 14 | ones 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 56,000 4,900 280 | 56,000 | 4,900 | 280 | tens 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,600 490 28 | 5,600 | 490 | 28 | ones 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 67,298 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(10) $837 \times 78 = 65,286$</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> <th style="width: 33%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">800</td> <td style="text-align: center;">30</td> <td style="text-align: center;">7</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">56,000 2,100 490</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">56,000</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">2,100</td> <td style="border: 1px solid black; text-align: center; padding: 5px;">490</td> <td style="border-left: 1px solid black; padding-left: 5px; text-align: center;">tens 70</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">6,400 240 56</td> <td style="border: 1px solid black; 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| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 800 | 30 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56,000 2,100 490 | 56,000 | 2,100 | 490 | tens 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6,400 240 56 | 6,400 | 240 | 56 | ones 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 65,286 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12,000 1,600 120 | 12,000 | 1,600 | 120 | tens 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,100 280 21 | 2,100 | 280 | 21 | ones 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 16,121 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | hundreds | tens | ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100 | 10 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9,000 900 360 | 9,000 | 900 | 360 | tens 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 70 28 | 700 | 70 | 28 | ones 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 11,058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |