

# Solved Long Division Problems with Step-By-Step Walkthrough

Steps:   (1) Divide    (2) Multiply    (3) Subtract    (4) Bring down the next number    (5) Repeat if needed

*Solutions are on page 2*

<div>(1)</div> <div>100   9651467</div>	<div>(2)</div> <div>306   1622092</div>	<div>(3)</div> <div>492   4935821</div>
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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<div>(1)</div> <div><div><div>96514 R67</div><div>100</div><div><div><div>9651467</div><div><div><div>- 900</div><div>( 9 x 100 )</div></div><div><div>651</div><div>- 600</div><div>( 6 x 100 )</div></div><div><div>514</div><div>- 500</div><div>( 5 x 100 )</div></div><div><div>146</div><div>- 100</div><div>( 1 x 100 )</div></div><div><div>467</div><div>- 400</div><div>( 4 x 100 )</div></div></div><div>67</div></div></div><div>Remainder --&gt;</div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 100 into 965 ( = 9 ) Multiply 9 times 100 ( = 900 ) Subtract 900 from 965 ( = 65 ) Bring down the 1</div><div>Divide 100 into 651 ( = 6 ) Multiply 6 times 100 ( = 600 ) Subtract 600 from 651 ( = 51 ) Bring down the 4</div><div>Divide 100 into 514 ( = 5 ) Multiply 5 times 100 ( = 500 ) Subtract 500 from 514 ( = 14 ) Bring down the 6</div><div>Divide 100 into 146 ( = 1 ) Multiply 1 times 100 ( = 100 ) Subtract 100 from 146 ( = 46 ) Bring down the 7</div><div>Divide 100 into 467 ( = 4 ) Multiply 4 times 100 ( = 400 ) Subtract 400 from 467 ( = 67 ) Done. No more numbers to bring down.</div></div>	<div>(2)</div> <div><div><div>5300 R292</div><div>306</div><div><div><div>1622092</div><div><div><div>- 1530</div><div>( 5 x 306 )</div></div><div><div>920</div><div>- 918</div><div>( 3 x 306 )</div></div><div><div>29</div><div>- 0</div><div>( 0 x 306 )</div></div><div><div>292</div><div>- 0</div><div>( 0 x 306 )</div></div></div><div>292</div></div></div><div>Remainder --&gt;</div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 306 into 1622 ( = 5 ) Multiply 5 times 306 ( = 1530 ) Subtract 1530 from 1622 ( = 92 ) Bring down the 0</div><div>Divide 306 into 920 ( = 3 ) Multiply 3 times 306 ( = 918 ) Subtract 918 from 920 ( = 2 ) Bring down the 9</div><div>Divide 306 into 29 ( = 0 ) Multiply 0 times 306 ( = 0 ) Subtract 0 from 29 ( = 29 ) Bring down the 2</div><div>Divide 306 into 292 ( = 0 ) Multiply 0 times 306 ( = 0 ) Subtract 0 from 292 ( = 292 ) Done. No more numbers to bring down.</div></div></div>	<div>(3)</div> <div><div><div>10032 R77</div><div>492</div><div><div><div>4935821</div><div><div><div>- 492</div><div>( 1 x 492 )</div></div><div><div>15</div><div>- 0</div><div>( 0 x 492 )</div></div><div><div>158</div><div>- 0</div><div>( 0 x 492 )</div></div><div><div>1582</div><div>- 1476</div><div>( 3 x 492 )</div></div><div><div>1061</div><div>- 984</div><div>( 2 x 492 )</div></div></div><div>77</div></div></div><div>Remainder --&gt;</div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 492 into 493 ( = 1 ) Multiply 1 times 492 ( = 492 ) Subtract 492 from 493 ( = 1 ) Bring down the 5</div><div>Divide 492 into 15 ( = 0 ) Multiply 0 times 492 ( = 0 ) Subtract 0 from 15 ( = 15 ) Bring down the 8</div><div>Divide 492 into 158 ( = 0 ) Multiply 0 times 492 ( = 0 ) Subtract 0 from 158 ( = 158 ) Bring down the 2</div><div>Divide 492 into 1582 ( = 3 ) Multiply 3 times 492 ( = 1476 ) Subtract 1476 from 1582 ( = 106 ) Bring down the 1</div><div>Divide 492 into 1061 ( = 2 ) Multiply 2 times 492 ( = 984 ) Subtract 984 from 1061 ( = 77 ) Done. No more numbers to bring down.</div></div></div>
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