

# 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*

(1) <div>922   796606</div>	(2) <div>147   819365</div>	(3) <div>259   520502</div>
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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<div><div>(1)</div><div><div>863 R920</div><div>922 <math>\overline{)796606}</math></div><div><div><div><div>- 7376</div><div>5900</div><div>- 5532</div><div>3686</div><div>- 2766</div></div><div><div>( 8 x 922 )</div><div>( 6 x 922 )</div><div>( 3 x 922 )</div></div></div><div>Remainder --&gt; 920</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div><div>Divide 922 into 7966 ( = 8 )</div><div>Multiply 8 times 922 ( = 7376 )</div><div>Subtract 7376 from 7966 ( = 590 )</div><div>Bring down the 0</div><div>Divide 922 into 5900 ( = 6 )</div><div>Multiply 6 times 922 ( = 5532 )</div><div>Subtract 5532 from 5900 ( = 368 )</div><div>Bring down the 6</div><div>Divide 922 into 3686 ( = 3 )</div><div>Multiply 3 times 922 ( = 2766 )</div><div>Subtract 2766 from 3686 ( = 920 )</div><div>Done. No more numbers to bring down.</div></div></div>	<div><div>(2)</div><div><div>5573 R134</div><div>147 <math>\overline{)819365}</math></div><div><div><div>- 735</div><div>843</div><div>- 735</div><div>1086</div><div>- 1029</div><div>575</div><div>- 441</div></div><div><div>( 5 x 147 )</div><div>( 5 x 147 )</div><div>( 7 x 147 )</div><div>( 3 x 147 )</div></div></div><div>Remainder --&gt; 134</div></div></div> <div>Divide, Multiply, Subtract, Bring down, Repeat</div> <div><div>Divide 147 into 819 ( = 5 )</div><div>Multiply 5 times 147 ( = 735 )</div><div>Subtract 735 from 819 ( = 84 )</div><div>Bring down the 3</div><div>Divide 147 into 843 ( = 5 )</div><div>Multiply 5 times 147 ( = 735 )</div><div>Subtract 735 from 843 ( = 108 )</div><div>Bring down the 6</div><div>Divide 147 into 1086 ( = 7 )</div><div>Multiply 7 times 147 ( = 1029 )</div><div>Subtract 1029 from 1086 ( = 57 )</div><div>Bring down the 5</div><div>Divide 147 into 575 ( = 3 )</div><div>Multiply 3 times 147 ( = 441 )</div><div>Subtract 441 from 575 ( = 134 )</div><div>Done. No more numbers to bring down.</div></div>	<div><div>(3)</div><div><div>2009 R171</div><div>259 <math>\overline{)520502}</math></div><div><div><div>- 518</div><div>25</div><div>- 0</div><div>250</div><div>- 0</div><div>2502</div><div>- 2331</div></div><div><div>( 2 x 259 )</div><div>( 0 x 259 )</div><div>( 0 x 259 )</div><div>( 9 x 259 )</div></div></div><div>Remainder --&gt; 171</div></div></div> <div>Divide, Multiply, Subtract, Bring down, Repeat</div> <div><div>Divide 259 into 520 ( = 2 )</div><div>Multiply 2 times 259 ( = 518 )</div><div>Subtract 518 from 520 ( = 2 )</div><div>Bring down the 5</div><div>Divide 259 into 25 ( = 0 )</div><div>Multiply 0 times 259 ( = 0 )</div><div>Subtract 0 from 25 ( = 25 )</div><div>Bring down the 0</div><div>Divide 259 into 250 ( = 0 )</div><div>Multiply 0 times 259 ( = 0 )</div><div>Subtract 0 from 250 ( = 250 )</div><div>Bring down the 2</div><div>Divide 259 into 2502 ( = 9 )</div><div>Multiply 9 times 259 ( = 2331 )</div><div>Subtract 2331 from 2502 ( = 171 )</div><div>Done. No more numbers to bring down.</div></div>
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