

# 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) 177   7075572	(2) 112   1435771	(3) 871   8671009
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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>39974 R174</div><div>177 <div>7075572</div></div><div><div><div>- 531</div><div>( 3 x 177 )</div></div><div><div>1765</div><div>- 1593</div><div>( 9 x 177 )</div><div>1725</div><div>- 1593</div><div>( 9 x 177 )</div><div>1327</div><div>- 1239</div><div>( 7 x 177 )</div><div>882</div><div>- 708</div><div>( 4 x 177 )</div></div><div>Remainder --&gt; 174</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div><div>Divide 177 into 707 ( = 3 )</div><div>Multiply 3 times 177 ( = 531 )</div><div>Subtract 531 from 707 ( = 176 )</div><div>Bring down the 5</div><div>Divide 177 into 1765 ( = 9 )</div><div>Multiply 9 times 177 ( = 1593 )</div><div>Subtract 1593 from 1765 ( = 172 )</div><div>Bring down the 5</div><div>Divide 177 into 1725 ( = 9 )</div><div>Multiply 9 times 177 ( = 1593 )</div><div>Subtract 1593 from 1725 ( = 132 )</div><div>Bring down the 7</div><div>Divide 177 into 1327 ( = 7 )</div><div>Multiply 7 times 177 ( = 1239 )</div><div>Subtract 1239 from 1327 ( = 88 )</div><div>Bring down the 2</div><div>Divide 177 into 882 ( = 4 )</div><div>Multiply 4 times 177 ( = 708 )</div><div>Subtract 708 from 882 ( = 174 )</div><div>Done. No more numbers to bring down.</div></div></div>	<div>(2)</div> <div><div><div>12819 R43</div><div>112 <div>1435771</div></div><div><div><div>- 112</div><div>( 1 x 112 )</div></div><div><div>315</div><div>- 224</div><div>( 2 x 112 )</div><div>917</div><div>- 896</div><div>( 8 x 112 )</div><div>217</div><div>- 112</div><div>( 1 x 112 )</div><div>1051</div><div>- 1008</div><div>( 9 x 112 )</div></div><div>Remainder --&gt; 43</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div><div>Divide 112 into 143 ( = 1 )</div><div>Multiply 1 times 112 ( = 112 )</div><div>Subtract 112 from 143 ( = 31 )</div><div>Bring down the 5</div><div>Divide 112 into 315 ( = 2 )</div><div>Multiply 2 times 112 ( = 224 )</div><div>Subtract 224 from 315 ( = 91 )</div><div>Bring down the 7</div><div>Divide 112 into 917 ( = 8 )</div><div>Multiply 8 times 112 ( = 896 )</div><div>Subtract 896 from 917 ( = 21 )</div><div>Bring down the 7</div><div>Divide 112 into 217 ( = 1 )</div><div>Multiply 1 times 112 ( = 112 )</div><div>Subtract 112 from 217 ( = 105 )</div><div>Bring down the 1</div><div>Divide 112 into 1051 ( = 9 )</div><div>Multiply 9 times 112 ( = 1008 )</div><div>Subtract 1008 from 1051 ( = 43 )</div><div>Done. No more numbers to bring down.</div></div></div>	<div>(3)</div> <div><div><div>9955 R204</div><div>871 <div>8671009</div></div><div><div><div>- 7839</div><div>( 9 x 871 )</div></div><div><div>8320</div><div>- 7839</div><div>( 9 x 871 )</div><div>4810</div><div>- 4355</div><div>( 5 x 871 )</div><div>4559</div><div>- 4355</div><div>( 5 x 871 )</div></div><div>Remainder --&gt; 204</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div><div>Divide 871 into 8671 ( = 9 )</div><div>Multiply 9 times 871 ( = 7839 )</div><div>Subtract 7839 from 8671 ( = 832 )</div><div>Bring down the 0</div><div>Divide 871 into 8320 ( = 9 )</div><div>Multiply 9 times 871 ( = 7839 )</div><div>Subtract 7839 from 8320 ( = 481 )</div><div>Bring down the 0</div><div>Divide 871 into 4810 ( = 5 )</div><div>Multiply 5 times 871 ( = 4355 )</div><div>Subtract 4355 from 4810 ( = 455 )</div><div>Bring down the 9</div><div>Divide 871 into 4559 ( = 5 )</div><div>Multiply 5 times 871 ( = 4355 )</div><div>Subtract 4355 from 4559 ( = 204 )</div><div>Done. No more numbers to bring down.</div></div></div>
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