

# 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>8   8428821</div>	(2) <div>7   8009435</div>	(3) <div>8   7618740</div>
-------------------------------	-------------------------------	-------------------------------

# 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

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<div><div>(1)</div><div><div>1053602 R5</div><div>8</div><div><div>8428821</div><div><div><div>- 8</div><div>( 1 x 8 )</div></div><div><div>04</div><div><div>- 0</div><div>( 0 x 8 )</div></div><div><div>42</div><div><div>- 40</div><div>( 5 x 8 )</div></div><div><div>28</div><div><div>- 24</div><div>( 3 x 8 )</div></div><div><div>48</div><div><div>- 48</div><div>( 6 x 8 )</div></div><div><div>02</div><div><div>- 0</div><div>( 0 x 8 )</div></div><div><div>21</div><div><div>- 16</div><div>( 2 x 8 )</div></div></div></div></div><div>Remainder --&gt; 5</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 8 into 8 ( = 1 ) Multiply 1 times 8 ( = 8 ) Subtract 8 from 8 ( = 0 ) Bring down the 4</div><div>Divide 8 into 04 ( = 0 ) Multiply 0 times 8 ( = 0 ) Subtract 0 from 04 ( = 4 ) Bring down the 2</div><div>Divide 8 into 42 ( = 5 ) Multiply 5 times 8 ( = 40 ) Subtract 40 from 42 ( = 2 ) Bring down the 8</div><div>Divide 8 into 28 ( = 3 ) Multiply 3 times 8 ( = 24 ) Subtract 24 from 28 ( = 4 ) Bring down the 8</div><div>Divide 8 into 48 ( = 6 ) Multiply 6 times 8 ( = 48 ) Subtract 48 from 48 ( = 0 ) Bring down the 2</div><div>Divide 8 into 02 ( = 0 ) Multiply 0 times 8 ( = 0 ) Subtract 0 from 02 ( = 2 ) Bring down the 1</div></div></div></div></div></div>	<div><div>(2)</div><div><div>1144205 R0</div><div>7</div><div><div>8009435</div><div><div><div>- 7</div><div>( 1 x 7 )</div></div><div><div>10</div><div><div>- 7</div><div>( 1 x 7 )</div></div><div><div>30</div><div><div>- 28</div><div>( 4 x 7 )</div></div><div><div>29</div><div><div>- 28</div><div>( 4 x 7 )</div></div><div><div>14</div><div><div>- 14</div><div>( 2 x 7 )</div></div><div><div>03</div><div><div>- 0</div><div>( 0 x 7 )</div></div><div><div>35</div><div><div>- 35</div><div>( 5 x 7 )</div></div></div></div></div><div>Remainder --&gt; 0</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 7 into 8 ( = 1 ) Multiply 1 times 7 ( = 7 ) Subtract 7 from 8 ( = 1 ) Bring down the 0</div><div>Divide 7 into 10 ( = 1 ) Multiply 1 times 7 ( = 7 ) Subtract 7 from 10 ( = 3 ) Bring down the 0</div><div>Divide 7 into 30 ( = 4 ) Multiply 4 times 7 ( = 28 ) Subtract 28 from 30 ( = 2 ) Bring down the 9</div><div>Divide 7 into 29 ( = 4 ) Multiply 4 times 7 ( = 28 ) Subtract 28 from 29 ( = 1 ) Bring down the 4</div><div>Divide 7 into 14 ( = 2 ) Multiply 2 times 7 ( = 14 ) Subtract 14 from 14 ( = 0 ) Bring down the 3</div><div>Divide 7 into 03 ( = 0 ) Multiply 0 times 7 ( = 0 ) Subtract 0 from 03 ( = 3 ) Bring down the 5</div></div></div></div></div></div>	<div><div>(3)</div><div><div>952342 R4</div><div>8</div><div><div>7618740</div><div><div><div>- 72</div><div>( 9 x 8 )</div></div><div><div>41</div><div><div>- 40</div><div>( 5 x 8 )</div></div><div><div>18</div><div><div>- 16</div><div>( 2 x 8 )</div></div><div><div>27</div><div><div>- 24</div><div>( 3 x 8 )</div></div><div><div>34</div><div><div>- 32</div><div>( 4 x 8 )</div></div><div><div>20</div><div><div>- 16</div><div>( 2 x 8 )</div></div></div></div></div><div>Remainder --&gt; 4</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 8 into 76 ( = 9 ) Multiply 9 times 8 ( = 72 ) Subtract 72 from 76 ( = 4 ) Bring down the 1</div><div>Divide 8 into 41 ( = 5 ) Multiply 5 times 8 ( = 40 ) Subtract 40 from 41 ( = 1 ) Bring down the 8</div><div>Divide 8 into 18 ( = 2 ) Multiply 2 times 8 ( = 16 ) Subtract 16 from 18 ( = 2 ) Bring down the 7</div><div>Divide 8 into 27 ( = 3 ) Multiply 3 times 8 ( = 24 ) Subtract 24 from 27 ( = 3 ) Bring down the 4</div><div>Divide 8 into 34 ( = 4 ) Multiply 4 times 8 ( = 32 ) Subtract 32 from 34 ( = 2 ) Bring down the 0</div><div>Divide 8 into 20 ( = 2 ) Multiply 2 times 8 ( = 16 ) Subtract 16 from 20 ( = 4 ) Done. No more numbers to bring down.</div></div></div></div></div>
--	--	--

Divide 8 into 21 ( = 2 )  
Multiply 2 times 8 ( = 16 )  
Subtract 16 from 21 ( = 5 )  
Done. No more numbers to bring down.

Divide 7 into 35 ( = 5 )  
Multiply 5 times 7 ( = 35 )  
Subtract 35 from 35 ( = 0 )  
Done. No more numbers to bring down.