

# 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>9   76796</div>	(2) <div>5   74959</div>	(3) <div>4   34542</div>
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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<div>(1)<div><div>8532 R8</div><div>9<div>76796</div></div><div><div><div>- 72</div><div>( 8 x 9 )</div></div><div><div>47</div><div>- 45</div><div>( 5 x 9 )</div><div>29</div><div>- 27</div><div>( 3 x 9 )</div><div>26</div><div>- 18</div><div>( 2 x 9 )</div></div><div>Remainder --&gt; 8</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 9 into 76 ( = 8 ) Multiply 8 times 9 ( = 72 ) Subtract 72 from 76 ( = 4 ) Bring down the 7</div><div>Divide 9 into 47 ( = 5 ) Multiply 5 times 9 ( = 45 ) Subtract 45 from 47 ( = 2 ) Bring down the 9</div><div>Divide 9 into 29 ( = 3 ) Multiply 3 times 9 ( = 27 ) Subtract 27 from 29 ( = 2 ) Bring down the 6</div><div>Divide 9 into 26 ( = 2 ) Multiply 2 times 9 ( = 18 ) Subtract 18 from 26 ( = 8 ) Done. No more numbers to bring down.</div></div>	<div>(2)<div><div>14991 R4</div><div>5<div>74959</div></div><div><div><div>- 5</div><div>( 1 x 5 )</div></div><div><div>24</div><div>- 20</div><div>( 4 x 5 )</div><div>49</div><div>- 45</div><div>( 9 x 5 )</div><div>45</div><div>- 45</div><div>( 9 x 5 )</div><div>09</div><div>- 5</div><div>( 1 x 5 )</div></div><div>Remainder --&gt; 4</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 5 into 7 ( = 1 ) Multiply 1 times 5 ( = 5 ) Subtract 5 from 7 ( = 2 ) Bring down the 4</div><div>Divide 5 into 24 ( = 4 ) Multiply 4 times 5 ( = 20 ) Subtract 20 from 24 ( = 4 ) Bring down the 9</div><div>Divide 5 into 49 ( = 9 ) Multiply 9 times 5 ( = 45 ) Subtract 45 from 49 ( = 4 ) Bring down the 5</div><div>Divide 5 into 45 ( = 9 ) Multiply 9 times 5 ( = 45 ) Subtract 45 from 45 ( = 0 ) Bring down the 9</div><div>Divide 5 into 09 ( = 1 ) Multiply 1 times 5 ( = 5 ) Subtract 5 from 09 ( = 4 ) Done. No more numbers to bring down.</div></div>	<div>(3)<div><div>8635 R2</div><div>4<div>34542</div></div><div><div><div>- 32</div><div>( 8 x 4 )</div></div><div><div>25</div><div>- 24</div><div>( 6 x 4 )</div><div>14</div><div>- 12</div><div>( 3 x 4 )</div><div>22</div><div>- 20</div><div>( 5 x 4 )</div></div><div>Remainder --&gt; 2</div></div></div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 4 into 34 ( = 8 ) Multiply 8 times 4 ( = 32 ) Subtract 32 from 34 ( = 2 ) Bring down the 5</div><div>Divide 4 into 25 ( = 6 ) Multiply 6 times 4 ( = 24 ) Subtract 24 from 25 ( = 1 ) Bring down the 4</div><div>Divide 4 into 14 ( = 3 ) Multiply 3 times 4 ( = 12 ) Subtract 12 from 14 ( = 2 ) Bring down the 2</div><div>Divide 4 into 22 ( = 5 ) Multiply 5 times 4 ( = 20 ) Subtract 20 from 22 ( = 2 ) Done. No more numbers to bring down.</div></div>
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