

# 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>7 <math>\overline{)88196}</math></div>	(2) <div>8 <math>\overline{)75464}</math></div>	(3) <div>8 <math>\overline{)97785}</math></div>
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# Solved Long Division Problems with Step-By-Step Walkthrough

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

<div>(1)<div><div>12599 R3</div><div>7<div>88196</div><div>- 7<div>( 1 x 7 )</div></div><div>18</div><div>- 14<div>( 2 x 7 )</div></div><div>41</div><div>- 35<div>( 5 x 7 )</div></div><div>69</div><div>- 63<div>( 9 x 7 )</div></div><div>66</div><div>- 63<div>( 9 x 7 )</div></div></div><div>Remainder --&gt; 3</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 8</div><div>Divide 7 into 18 ( = 2 ) Multiply 2 times 7 ( = 14 ) Subtract 14 from 18 ( = 4 ) Bring down the 1</div><div>Divide 7 into 41 ( = 5 ) Multiply 5 times 7 ( = 35 ) Subtract 35 from 41 ( = 6 ) Bring down the 9</div><div>Divide 7 into 69 ( = 9 ) Multiply 9 times 7 ( = 63 ) Subtract 63 from 69 ( = 6 ) Bring down the 6</div><div>Divide 7 into 66 ( = 9 ) Multiply 9 times 7 ( = 63 ) Subtract 63 from 66 ( = 3 ) Done. No more numbers to bring down.</div></div></div>	<div>(2)<div><div>9433 R0</div><div>8<div>75464</div><div>- 72<div>( 9 x 8 )</div></div><div>34</div><div>- 32<div>( 4 x 8 )</div></div><div>26</div><div>- 24<div>( 3 x 8 )</div></div><div>24</div><div>- 24<div>( 3 x 8 )</div></div></div><div>Remainder --&gt; 0</div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 8 into 75 ( = 9 ) Multiply 9 times 8 ( = 72 ) Subtract 72 from 75 ( = 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 6</div><div>Divide 8 into 26 ( = 3 ) Multiply 3 times 8 ( = 24 ) Subtract 24 from 26 ( = 2 ) Bring down the 4</div><div>Divide 8 into 24 ( = 3 ) Multiply 3 times 8 ( = 24 ) Subtract 24 from 24 ( = 0 ) Done. No more numbers to bring down.</div></div></div>	<div>(3)<div><div>12223 R1</div><div>8<div>97785</div><div>- 8<div>( 1 x 8 )</div></div><div>17</div><div>- 16<div>( 2 x 8 )</div></div><div>17</div><div>- 16<div>( 2 x 8 )</div></div><div>18</div><div>- 16<div>( 2 x 8 )</div></div><div>25</div><div>- 24<div>( 3 x 8 )</div></div></div><div>Remainder --&gt; 1</div><div>Divide, Multiply, Subtract, Bring down, Repeat</div><div>Divide 8 into 9 ( = 1 ) Multiply 1 times 8 ( = 8 ) Subtract 8 from 9 ( = 1 ) Bring down the 7</div><div>Divide 8 into 17 ( = 2 ) Multiply 2 times 8 ( = 16 ) Subtract 16 from 17 ( = 1 ) Bring down the 7</div><div>Divide 8 into 17 ( = 2 ) Multiply 2 times 8 ( = 16 ) Subtract 16 from 17 ( = 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 5</div><div>Divide 8 into 25 ( = 3 ) Multiply 3 times 8 ( = 24 ) Subtract 24 from 25 ( = 1 ) Done. No more numbers to bring down.</div></div></div>
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