

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>4 $\overline{)141713}$</div>	(2) <div>4 $\overline{)449899}$</div>	(3) <div>9 $\overline{)203354}$</div>
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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>(1)</div> <div><div><div>35428 R1</div><div>4</div><div>141713</div><div><div><div>- 12</div><div>21</div><div>- 20</div><div>17</div><div>- 16</div><div>11</div><div>- 8</div><div>33</div><div>- 32</div></div><div>1</div></div></div><div><div>(3 x 4)</div><div>(5 x 4)</div><div>(4 x 4)</div><div>(2 x 4)</div><div>(8 x 4)</div></div></div> <div>Remainder --></div> <div>Divide, Multiply, Subtract, Bring down, Repeat</div> <div><div>Divide 4 into 14 (= 3)</div><div>Multiply 3 times 4 (= 12)</div><div>Subtract 12 from 14 (= 2)</div><div>Bring down the 1</div><div>Divide 4 into 21 (= 5)</div><div>Multiply 5 times 4 (= 20)</div><div>Subtract 20 from 21 (= 1)</div><div>Bring down the 7</div><div>Divide 4 into 17 (= 4)</div><div>Multiply 4 times 4 (= 16)</div><div>Subtract 16 from 17 (= 1)</div><div>Bring down the 1</div><div>Divide 4 into 11 (= 2)</div><div>Multiply 2 times 4 (= 8)</div><div>Subtract 8 from 11 (= 3)</div><div>Bring down the 3</div><div>Divide 4 into 33 (= 8)</div><div>Multiply 8 times 4 (= 32)</div><div>Subtract 32 from 33 (= 1)</div><div>Done. No more numbers to bring down.</div></div>	<div>(2)</div> <div><div><div>112474 R3</div><div>4</div><div>449899</div><div><div><div>- 4</div><div>04</div><div>- 4</div><div>09</div><div>- 8</div><div>18</div><div>- 16</div><div>29</div><div>- 28</div><div>19</div><div>- 16</div></div><div>3</div></div></div><div><div>(1 x 4)</div><div>(1 x 4)</div><div>(2 x 4)</div><div>(4 x 4)</div><div>(7 x 4)</div><div>(4 x 4)</div></div></div> <div>Remainder --></div> <div>Divide, Multiply, Subtract, Bring down, Repeat</div> <div><div>Divide 4 into 4 (= 1)</div><div>Multiply 1 times 4 (= 4)</div><div>Subtract 4 from 4 (= 0)</div><div>Bring down the 4</div><div>Divide 4 into 04 (= 1)</div><div>Multiply 1 times 4 (= 4)</div><div>Subtract 4 from 04 (= 0)</div><div>Bring down the 9</div><div>Divide 4 into 09 (= 2)</div><div>Multiply 2 times 4 (= 8)</div><div>Subtract 8 from 09 (= 1)</div><div>Bring down the 8</div><div>Divide 4 into 18 (= 4)</div><div>Multiply 4 times 4 (= 16)</div><div>Subtract 16 from 18 (= 2)</div><div>Bring down the 9</div><div>Divide 4 into 29 (= 7)</div><div>Multiply 7 times 4 (= 28)</div><div>Subtract 28 from 29 (= 1)</div><div>Bring down the 9</div><div>Divide 4 into 19 (= 4)</div><div>Multiply 4 times 4 (= 16)</div><div>Subtract 16 from 19 (= 3)</div><div>Done. No more numbers to bring down.</div></div>	<div>(3)</div> <div><div><div>22594 R8</div><div>9</div><div>203354</div><div><div><div>- 18</div><div>23</div><div>- 18</div><div>53</div><div>- 45</div><div>85</div><div>- 81</div><div>44</div><div>- 36</div></div><div>8</div></div></div><div><div>(2 x 9)</div><div>(2 x 9)</div><div>(5 x 9)</div><div>(9 x 9)</div><div>(4 x 9)</div></div></div> <div>Remainder --></div> <div>Divide, Multiply, Subtract, Bring down, Repeat</div> <div><div>Divide 9 into 20 (= 2)</div><div>Multiply 2 times 9 (= 18)</div><div>Subtract 18 from 20 (= 2)</div><div>Bring down the 3</div><div>Divide 9 into 23 (= 2)</div><div>Multiply 2 times 9 (= 18)</div><div>Subtract 18 from 23 (= 5)</div><div>Bring down the 3</div><div>Divide 9 into 53 (= 5)</div><div>Multiply 5 times 9 (= 45)</div><div>Subtract 45 from 53 (= 8)</div><div>Bring down the 5</div><div>Divide 9 into 85 (= 9)</div><div>Multiply 9 times 9 (= 81)</div><div>Subtract 81 from 85 (= 4)</div><div>Bring down the 4</div><div>Divide 9 into 44 (= 4)</div><div>Multiply 4 times 9 (= 36)</div><div>Subtract 36 from 44 (= 8)</div><div>Done. No more numbers to bring down.</div></div>
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