

# 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)

$$5 \overline{)502}$$

(2)

$$4 \overline{)593}$$

(3)

$$6 \overline{)538}$$

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

<p>(1)</p> $\begin{array}{r} 100 \text{ R}2 \\ 5 \overline{) 502} \\ \underline{- 5} \phantom{00} \phantom{00} \phantom{00} \\ 00 \phantom{00} \phantom{00} \phantom{00} \\ \underline{- 0} \phantom{00} \phantom{00} \phantom{00} \\ 02 \phantom{00} \phantom{00} \phantom{00} \\ \underline{- 0} \phantom{00} \phantom{00} \phantom{00} \\ 2 \end{array}$ <p><i>Remainder --&gt; 2</i></p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 5 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 5 (= 0)            Bring down the 0</p> <p>Divide 5 into 00 (= 0)            Multiply 0 times 5 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 2</p> <p>Divide 5 into 02 (= 0)            Multiply 0 times 5 (= 0)            Subtract 0 from 02 (= 2)            Done. No more numbers to bring down.</p>	<p>(2)</p> $\begin{array}{r} 148 \text{ R}1 \\ 4 \overline{) 593} \\ \underline{- 4} \phantom{00} \phantom{00} \phantom{00} \\ 19 \phantom{00} \phantom{00} \phantom{00} \\ \underline{- 16} \phantom{00} \phantom{00} \phantom{00} \\ 33 \phantom{00} \phantom{00} \phantom{00} \\ \underline{- 32} \phantom{00} \phantom{00} \phantom{00} \\ 1 \end{array}$ <p><i>Remainder --&gt; 1</i></p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 5 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 5 (= 1)            Bring down the 9</p> <p>Divide 4 into 19 (= 4)            Multiply 4 times 4 (= 16)            Subtract 16 from 19 (= 3)            Bring down the 3</p> <p>Divide 4 into 33 (= 8)            Multiply 8 times 4 (= 32)            Subtract 32 from 33 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $\begin{array}{r} 89 \text{ R}4 \\ 6 \overline{) 538} \\ \underline{- 48} \phantom{00} \phantom{00} \phantom{00} \\ 58 \phantom{00} \phantom{00} \phantom{00} \\ \underline{- 54} \phantom{00} \phantom{00} \phantom{00} \\ 4 \end{array}$ <p><i>Remainder --&gt; 4</i></p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 53 (= 8)            Multiply 8 times 6 (= 48)            Subtract 48 from 53 (= 5)            Bring down the 8</p> <p>Divide 6 into 58 (= 9)            Multiply 9 times 6 (= 54)            Subtract 54 from 58 (= 4)            Done. No more numbers to bring down.</p>
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