

# 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)

$$98 \overline{) 539}$$

(2)

$$76 \overline{) 494}$$

(3)

$$24 \overline{) 768}$$

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

<p>(1)</p> $\begin{array}{r} 5 \text{ R}49 \\ 98 \overline{) 539} \\ \underline{- 490} \phantom{0} \\ 49 \end{array} \quad (5 \times 98)$ <p>Remainder --&gt; 49</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 98 into 539 (= 5) Multiply 5 times 98 (= 490) Subtract 490 from 539 (= 49) Done. No more numbers to bring down.</p>	<p>(2)</p> $\begin{array}{r} 6 \text{ R}38 \\ 76 \overline{) 494} \\ \underline{- 456} \phantom{0} \\ 38 \end{array} \quad (6 \times 76)$ <p>Remainder --&gt; 38</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 76 into 494 (= 6) Multiply 6 times 76 (= 456) Subtract 456 from 494 (= 38) Done. No more numbers to bring down.</p>	<p>(3)</p> $\begin{array}{r} 32 \text{ R}0 \\ 24 \overline{) 768} \\ \underline{- 72} \phantom{0} \\ 48 \\ \underline{- 48} \\ 0 \end{array} \quad \begin{array}{l} (3 \times 24) \\ (2 \times 24) \end{array}$ <p>Remainder --&gt; 0</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 24 into 76 (= 3) Multiply 3 times 24 (= 72) Subtract 72 from 76 (= 4) Bring down the 8</p> <p>Divide 24 into 48 (= 2) Multiply 2 times 24 (= 48) Subtract 48 from 48 (= 0) Done. No more numbers to bring down.</p>
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