

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)

$$462 \overline{) 18410}$$

(2)

$$964 \overline{) 89611}$$

(3)

$$688 \overline{) 20837}$$

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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} 39 \text{ R}392 \\ 462 \overline{) 18410} \\ \underline{- 1386} \quad (3 \times 462) \\ 4550 \\ \underline{- 4158} \quad (9 \times 462) \\ \text{Remainder --> } 392 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 462 into 1841 (= 3) Multiply 3 times 462 (= 1386) Subtract 1386 from 1841 (= 455) Bring down the 0</p> <p>Divide 462 into 4550 (= 9) Multiply 9 times 462 (= 4158) Subtract 4158 from 4550 (= 392) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 92 \text{ R}923 \\ 964 \overline{) 89611} \\ \underline{- 8676} \quad (9 \times 964) \\ 2851 \\ \underline{- 1928} \quad (2 \times 964) \\ \text{Remainder --> } 923 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 964 into 8961 (= 9) Multiply 9 times 964 (= 8676) Subtract 8676 from 8961 (= 285) Bring down the 1</p> <p>Divide 964 into 2851 (= 2) Multiply 2 times 964 (= 1928) Subtract 1928 from 2851 (= 923) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 30 \text{ R}197 \\ 688 \overline{) 20837} \\ \underline{- 2064} \quad (3 \times 688) \\ 197 \\ \underline{- 0} \quad (0 \times 688) \\ \text{Remainder --> } 197 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 688 into 2083 (= 3) Multiply 3 times 688 (= 2064) Subtract 2064 from 2083 (= 19) Bring down the 7</p> <p>Divide 688 into 197 (= 0) Multiply 0 times 688 (= 0) Subtract 0 from 197 (= 197) Done. No more numbers to bring down.</p>
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