

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)

$$5 \overline{)820}$$

(2)

$$8 \overline{)122}$$

(3)

$$6 \overline{)367}$$

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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} 164 \text{ R}0 \\ 5 \overline{) 820} \\ \underline{- 5} \qquad (1 \times 5) \\ 32 \\ \underline{- 30} \qquad (6 \times 5) \\ 20 \\ \underline{- 20} \qquad (4 \times 5) \\ 0 \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 8 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 8 (= 3) Bring down the 2</p> <p>Divide 5 into 32 (= 6) Multiply 6 times 5 (= 30) Subtract 30 from 32 (= 2) Bring down the 0</p> <p>Divide 5 into 20 (= 4) Multiply 4 times 5 (= 20) Subtract 20 from 20 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 15 \text{ R}2 \\ 8 \overline{) 122} \\ \underline{- 8} \qquad (1 \times 8) \\ 42 \\ \underline{- 40} \qquad (5 \times 8) \\ 2 \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 12 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 12 (= 4) Bring down the 2</p> <p>Divide 8 into 42 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 42 (= 2) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 61 \text{ R}1 \\ 6 \overline{) 367} \\ \underline{- 36} \qquad (6 \times 6) \\ 07 \\ \underline{- 6} \qquad (1 \times 6) \\ 1 \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 36 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 36 (= 0) Bring down the 7</p> <p>Divide 6 into 07 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 07 (= 1) Done. No more numbers to bring down.</p>
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