

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)

$$5 \overline{)1863}$$

(2)

$$3 \overline{)8406}$$

(3)

$$4 \overline{)7490}$$

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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} 372 \text{ R}3 \\ 5 \overline{) 1863} \\ \underline{- 15} \qquad (3 \times 5) \\ 36 \\ \underline{- 35} \qquad (7 \times 5) \\ 13 \\ \underline{- 10} \qquad (2 \times 5) \\ \hline \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 18 (= 3) Multiply 3 times 5 (= 15) Subtract 15 from 18 (= 3) Bring down the 6</p> <p>Divide 5 into 36 (= 7) Multiply 7 times 5 (= 35) Subtract 35 from 36 (= 1) Bring down the 3</p> <p>Divide 5 into 13 (= 2) Multiply 2 times 5 (= 10) Subtract 10 from 13 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 2802 \text{ R}0 \\ 3 \overline{) 8406} \\ \underline{- 6} \qquad (2 \times 3) \\ 24 \\ \underline{- 24} \qquad (8 \times 3) \\ 00 \\ \underline{- 0} \qquad (0 \times 3) \\ 06 \\ \underline{- 6} \qquad (2 \times 3) \\ \hline \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 8 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 8 (= 2) Bring down the 4</p> <p>Divide 3 into 24 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 24 (= 0) Bring down the 0</p> <p>Divide 3 into 00 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 00 (= 0) Bring down the 6</p> <p>Divide 3 into 06 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 06 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1872 \text{ R}2 \\ 4 \overline{) 7490} \\ \underline{- 4} \qquad (1 \times 4) \\ 34 \\ \underline{- 32} \qquad (8 \times 4) \\ 29 \\ \underline{- 28} \qquad (7 \times 4) \\ 10 \\ \underline{- 8} \qquad (2 \times 4) \\ \hline \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 7 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 7 (= 3) Bring down the 4</p> <p>Divide 4 into 34 (= 8) Multiply 8 times 4 (= 32) Subtract 32 from 34 (= 2) Bring down the 9</p> <p>Divide 4 into 29 (= 7) Multiply 7 times 4 (= 28) Subtract 28 from 29 (= 1) Bring down the 0</p> <p>Divide 4 into 10 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 10 (= 2) Done. No more numbers to bring down.</p>
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