

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)

$$4 \overline{)408250}$$

(2)

$$2 \overline{)281001}$$

(3)

$$4 \overline{)948587}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

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

<p>(1)</p> $ \begin{array}{r} 102062 \text{ R}2 \\ 4 \overline{) 408250} \\ \underline{- 4} \qquad (1 \times 4) \\ 00 \\ \underline{- 0} \qquad (0 \times 4) \\ 08 \\ \underline{- 8} \qquad (2 \times 4) \\ 02 \\ \underline{- 0} \qquad (0 \times 4) \\ 25 \\ \underline{- 24} \qquad (6 \times 4) \\ 10 \\ \underline{- 8} \qquad (2 \times 4) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 4 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 4 (= 0) Bring down the 0</p> <p>Divide 4 into 00 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 00 (= 0) Bring down the 8</p> <p>Divide 4 into 08 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 08 (= 0) Bring down the 2</p> <p>Divide 4 into 02 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 02 (= 2) Bring down the 5</p> <p>Divide 4 into 25 (= 6) Multiply 6 times 4 (= 24) Subtract 24 from 25 (= 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>	<p>(2)</p> $ \begin{array}{r} 140500 \text{ R}1 \\ 2 \overline{) 281001} \\ \underline{- 2} \qquad (1 \times 2) \\ 08 \\ \underline{- 8} \qquad (4 \times 2) \\ 01 \\ \underline{- 0} \qquad (0 \times 2) \\ 10 \\ \underline{- 10} \qquad (5 \times 2) \\ 00 \\ \underline{- 0} \qquad (0 \times 2) \\ 01 \\ \underline{- 0} \qquad (0 \times 2) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 2 (= 1) Multiply 1 times 2 (= 2) Subtract 2 from 2 (= 0) Bring down the 8</p> <p>Divide 2 into 08 (= 4) Multiply 4 times 2 (= 8) Subtract 8 from 08 (= 0) Bring down the 1</p> <p>Divide 2 into 01 (= 0) Multiply 0 times 2 (= 0) Subtract 0 from 01 (= 1) Bring down the 0</p> <p>Divide 2 into 10 (= 5) Multiply 5 times 2 (= 10) Subtract 10 from 10 (= 0) Bring down the 0</p> <p>Divide 2 into 00 (= 0) Multiply 0 times 2 (= 0) Subtract 0 from 00 (= 0) Bring down the 1</p> <p>Divide 2 into 01 (= 0) Multiply 0 times 2 (= 0) Subtract 0 from 01 (= 1) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 237146 \text{ R}3 \\ 4 \overline{) 948587} \\ \underline{- 8} \qquad (2 \times 4) \\ 14 \\ \underline{- 12} \qquad (3 \times 4) \\ 28 \\ \underline{- 28} \qquad (7 \times 4) \\ 05 \\ \underline{- 4} \qquad (1 \times 4) \\ 18 \\ \underline{- 16} \qquad (4 \times 4) \\ 27 \\ \underline{- 24} \qquad (6 \times 4) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 9 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 9 (= 1) Bring down the 4</p> <p>Divide 4 into 14 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 14 (= 2) Bring down the 8</p> <p>Divide 4 into 28 (= 7) Multiply 7 times 4 (= 28) Subtract 28 from 28 (= 0) Bring down the 5</p> <p>Divide 4 into 05 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 05 (= 1) Bring down the 8</p> <p>Divide 4 into 18 (= 4) Multiply 4 times 4 (= 16) Subtract 16 from 18 (= 2) Bring down the 7</p> <p>Divide 4 into 27 (= 6) Multiply 6 times 4 (= 24) Subtract 24 from 27 (= 3) Done. No more numbers to bring down.</p>
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