

# 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)

$$4 \overline{) 904841}$$

(2)

$$8 \overline{) 100247}$$

(3)

$$5 \overline{) 296790}$$

# 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

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

<p>(1)</p> $  \begin{array}{r}  226210 \text{ R}1 \\  4 \overline{) 904841} \\  \underline{- 8} \qquad (2 \times 4) \\  10 \\  \underline{- 8} \qquad (2 \times 4) \\  24 \\  \underline{- 24} \qquad (6 \times 4) \\  08 \\  \underline{- 8} \qquad (2 \times 4) \\  04 \\  \underline{- 4} \qquad (1 \times 4) \\  01 \\  \underline{- 0} \qquad (0 \times 4) \\  \text{Remainder --> } 1  \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 0</p> <p>Divide 4 into 10 (= 2)            Multiply 2 times 4 (= 8)            Subtract 8 from 10 (= 2)            Bring down the 4</p> <p>Divide 4 into 24 (= 6)            Multiply 6 times 4 (= 24)            Subtract 24 from 24 (= 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 4</p> <p>Divide 4 into 04 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 04 (= 0)            Bring down the 1</p> <p>Divide 4 into 01 (= 0)            Multiply 0 times 4 (= 0)            Subtract 0 from 01 (= 1)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  12530 \text{ R}7 \\  8 \overline{) 100247} \\  \underline{- 8} \qquad (1 \times 8) \\  20 \\  \underline{- 16} \qquad (2 \times 8) \\  42 \\  \underline{- 40} \qquad (5 \times 8) \\  24 \\  \underline{- 24} \qquad (3 \times 8) \\  07 \\  \underline{- 0} \qquad (0 \times 8) \\  \text{Remainder --> } 7  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 10 (= 1)            Multiply 1 times 8 (= 8)            Subtract 8 from 10 (= 2)            Bring down the 0</p> <p>Divide 8 into 20 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 20 (= 4)            Bring down the 2</p> <p>Divide 8 into 42 (= 5)            Multiply 5 times 8 (= 40)            Subtract 40 from 42 (= 2)            Bring down the 4</p> <p>Divide 8 into 24 (= 3)            Multiply 3 times 8 (= 24)            Subtract 24 from 24 (= 0)            Bring down the 7</p> <p>Divide 8 into 07 (= 0)            Multiply 0 times 8 (= 0)            Subtract 0 from 07 (= 7)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  59358 \text{ R}0 \\  5 \overline{) 296790} \\  \underline{- 25} \qquad (5 \times 5) \\  46 \\  \underline{- 45} \qquad (9 \times 5) \\  17 \\  \underline{- 15} \qquad (3 \times 5) \\  29 \\  \underline{- 25} \qquad (5 \times 5) \\  40 \\  \underline{- 40} \qquad (8 \times 5) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 29 (= 5)            Multiply 5 times 5 (= 25)            Subtract 25 from 29 (= 4)            Bring down the 6</p> <p>Divide 5 into 46 (= 9)            Multiply 9 times 5 (= 45)            Subtract 45 from 46 (= 1)            Bring down the 7</p> <p>Divide 5 into 17 (= 3)            Multiply 3 times 5 (= 15)            Subtract 15 from 17 (= 2)            Bring down the 9</p> <p>Divide 5 into 29 (= 5)            Multiply 5 times 5 (= 25)            Subtract 25 from 29 (= 4)            Bring down the 0</p> <p>Divide 5 into 40 (= 8)            Multiply 8 times 5 (= 40)            Subtract 40 from 40 (= 0)            Done. No more numbers to bring down.</p>
---	---	---