

# 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)

$$4 \overline{) 416286}$$

(2)

$$4 \overline{) 723608}$$

(3)

$$4 \overline{) 909646}$$

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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}  104071 \text{ R}2 \\  4 \overline{) 416286} \\  \underline{- 4} \qquad (1 \times 4) \\  01 \\  \underline{- 0} \qquad (0 \times 4) \\  16 \\  \underline{- 16} \qquad (4 \times 4) \\  02 \\  \underline{- 0} \qquad (0 \times 4) \\  28 \\  \underline{- 28} \qquad (7 \times 4) \\  06 \\  \underline{- 4} \qquad (1 \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 1</p> <p>Divide 4 into 01 (= 0)            Multiply 0 times 4 (= 0)            Subtract 0 from 01 (= 1)            Bring down the 6</p> <p>Divide 4 into 16 (= 4)            Multiply 4 times 4 (= 16)            Subtract 16 from 16 (= 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 8</p> <p>Divide 4 into 28 (= 7)            Multiply 7 times 4 (= 28)            Subtract 28 from 28 (= 0)            Bring down the 6</p> <p>Divide 4 into 06 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 06 (= 2)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  180902 \text{ R}0 \\  4 \overline{) 723608} \\  \underline{- 4} \qquad (1 \times 4) \\  32 \\  \underline{- 32} \qquad (8 \times 4) \\  03 \\  \underline{- 0} \qquad (0 \times 4) \\  36 \\  \underline{- 36} \qquad (9 \times 4) \\  00 \\  \underline{- 0} \qquad (0 \times 4) \\  08 \\  \underline{- 8} \qquad (2 \times 4) \\  \text{Remainder --> } 0  \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 2</p> <p>Divide 4 into 32 (= 8)            Multiply 8 times 4 (= 32)            Subtract 32 from 32 (= 0)            Bring down the 3</p> <p>Divide 4 into 03 (= 0)            Multiply 0 times 4 (= 0)            Subtract 0 from 03 (= 3)            Bring down the 6</p> <p>Divide 4 into 36 (= 9)            Multiply 9 times 4 (= 36)            Subtract 36 from 36 (= 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)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  227411 \text{ R}2 \\  4 \overline{) 909646} \\  \underline{- 8} \qquad (2 \times 4) \\  10 \\  \underline{- 8} \qquad (2 \times 4) \\  29 \\  \underline{- 28} \qquad (7 \times 4) \\  16 \\  \underline{- 16} \qquad (4 \times 4) \\  04 \\  \underline{- 4} \qquad (1 \times 4) \\  06 \\  \underline{- 4} \qquad (1 \times 4) \\  \text{Remainder --> } 2  \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 9</p> <p>Divide 4 into 29 (= 7)            Multiply 7 times 4 (= 28)            Subtract 28 from 29 (= 1)            Bring down the 6</p> <p>Divide 4 into 16 (= 4)            Multiply 4 times 4 (= 16)            Subtract 16 from 16 (= 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 6</p> <p>Divide 4 into 06 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 06 (= 2)            Done. No more numbers to bring down.</p>
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