

# 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)

$$7 \overline{)810704}$$

(2)

$$2 \overline{)460911}$$

(3)

$$6 \overline{)262929}$$

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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}  115814 \text{ R}6 \\  7 \overline{) 810704} \\  \underline{- 7} \qquad (1 \times 7) \\  11 \\  \underline{- 7} \qquad (1 \times 7) \\  40 \\  \underline{- 35} \qquad (5 \times 7) \\  57 \\  \underline{- 56} \qquad (8 \times 7) \\  10 \\  \underline{- 7} \qquad (1 \times 7) \\  34 \\  \underline{- 28} \qquad (4 \times 7) \\  \text{Remainder -->} \quad 6  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 8 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 8 (= 1)            Bring down the 1</p> <p>Divide 7 into 11 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 11 (= 4)            Bring down the 0</p> <p>Divide 7 into 40 (= 5)            Multiply 5 times 7 (= 35)            Subtract 35 from 40 (= 5)            Bring down the 7</p> <p>Divide 7 into 57 (= 8)            Multiply 8 times 7 (= 56)            Subtract 56 from 57 (= 1)            Bring down the 0</p> <p>Divide 7 into 10 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 10 (= 3)            Bring down the 4</p> <p>Divide 7 into 34 (= 4)            Multiply 4 times 7 (= 28)            Subtract 28 from 34 (= 6)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  230455 \text{ R}1 \\  2 \overline{) 460911} \\  \underline{- 4} \qquad (2 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  00 \\  \underline{- 0} \qquad (0 \times 2) \\  09 \\  \underline{- 8} \qquad (4 \times 2) \\  11 \\  \underline{- 10} \qquad (5 \times 2) \\  11 \\  \underline{- 10} \qquad (5 \times 2) \\  \text{Remainder -->} \quad 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 4 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 4 (= 0)            Bring down the 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 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 9</p> <p>Divide 2 into 09 (= 4)            Multiply 4 times 2 (= 8)            Subtract 8 from 09 (= 1)            Bring down the 1</p> <p>Divide 2 into 11 (= 5)            Multiply 5 times 2 (= 10)            Subtract 10 from 11 (= 1)            Bring down the 1</p> <p>Divide 2 into 11 (= 5)            Multiply 5 times 2 (= 10)            Subtract 10 from 11 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  43821 \text{ R}3 \\  6 \overline{) 262929} \\  \underline{- 24} \qquad (4 \times 6) \\  22 \\  \underline{- 18} \qquad (3 \times 6) \\  49 \\  \underline{- 48} \qquad (8 \times 6) \\  12 \\  \underline{- 12} \qquad (2 \times 6) \\  09 \\  \underline{- 6} \qquad (1 \times 6) \\  \text{Remainder -->} \quad 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 26 (= 4)            Multiply 4 times 6 (= 24)            Subtract 24 from 26 (= 2)            Bring down the 2</p> <p>Divide 6 into 22 (= 3)            Multiply 3 times 6 (= 18)            Subtract 18 from 22 (= 4)            Bring down the 9</p> <p>Divide 6 into 49 (= 8)            Multiply 8 times 6 (= 48)            Subtract 48 from 49 (= 1)            Bring down the 2</p> <p>Divide 6 into 12 (= 2)            Multiply 2 times 6 (= 12)            Subtract 12 from 12 (= 0)            Bring down the 9</p> <p>Divide 6 into 09 (= 1)            Multiply 1 times 6 (= 6)            Subtract 6 from 09 (= 3)            Done. No more numbers to bring down.</p>
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