

# 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)

$$9 \overline{) 415709}$$

(2)

$$2 \overline{) 121886}$$

(3)

$$5 \overline{) 292232}$$

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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}  46189 \text{ R}8 \\  9 \overline{) 415709} \\  \underline{- 36} \qquad (4 \times 9) \\  55 \\  \underline{- 54} \qquad (6 \times 9) \\  17 \\  \underline{- 9} \qquad (1 \times 9) \\  80 \\  \underline{- 72} \qquad (8 \times 9) \\  89 \\  \underline{- 81} \qquad (9 \times 9) \\  \text{Remainder --> } 8  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 41 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 41 (= 5)            Bring down the 5</p> <p>Divide 9 into 55 (= 6)            Multiply 6 times 9 (= 54)            Subtract 54 from 55 (= 1)            Bring down the 7</p> <p>Divide 9 into 17 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 17 (= 8)            Bring down the 0</p> <p>Divide 9 into 80 (= 8)            Multiply 8 times 9 (= 72)            Subtract 72 from 80 (= 8)            Bring down the 9</p> <p>Divide 9 into 89 (= 9)            Multiply 9 times 9 (= 81)            Subtract 81 from 89 (= 8)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  60943 \text{ R}0 \\  2 \overline{) 121886} \\  \underline{- 12} \qquad (6 \times 2) \\  01 \\  \underline{- 0} \qquad (0 \times 2) \\  18 \\  \underline{- 18} \qquad (9 \times 2) \\  08 \\  \underline{- 8} \qquad (4 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 12 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 12 (= 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 8</p> <p>Divide 2 into 18 (= 9)            Multiply 9 times 2 (= 18)            Subtract 18 from 18 (= 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 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  58446 \text{ R}2 \\  5 \overline{) 292232} \\  \underline{- 25} \qquad (5 \times 5) \\  42 \\  \underline{- 40} \qquad (8 \times 5) \\  22 \\  \underline{- 20} \qquad (4 \times 5) \\  23 \\  \underline{- 20} \qquad (4 \times 5) \\  32 \\  \underline{- 30} \qquad (6 \times 5) \\  \text{Remainder --> } 2  \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 2</p> <p>Divide 5 into 42 (= 8)            Multiply 8 times 5 (= 40)            Subtract 40 from 42 (= 2)            Bring down the 2</p> <p>Divide 5 into 22 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 22 (= 2)            Bring down the 3</p> <p>Divide 5 into 23 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 23 (= 3)            Bring down the 2</p> <p>Divide 5 into 32 (= 6)            Multiply 6 times 5 (= 30)            Subtract 30 from 32 (= 2)            Done. No more numbers to bring down.</p>
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