

# 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)

$$5 \overline{) 576205}$$

(2)

$$9 \overline{) 614278}$$

(3)

$$4 \overline{) 222805}$$

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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}  115241 \text{ R}0 \\  5 \overline{) 576205} \\  \underline{- 5} \qquad (1 \times 5) \\  07 \\  \underline{- 5} \qquad (1 \times 5) \\  26 \\  \underline{- 25} \qquad (5 \times 5) \\  12 \\  \underline{- 10} \qquad (2 \times 5) \\  20 \\  \underline{- 20} \qquad (4 \times 5) \\  05 \\  \underline{- 5} \qquad (1 \times 5) \\  0 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 5 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 5 (= 0)            Bring down the 7</p> <p>Divide 5 into 07 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 07 (= 2)            Bring down the 6</p> <p>Divide 5 into 26 (= 5)            Multiply 5 times 5 (= 25)            Subtract 25 from 26 (= 1)            Bring down the 2</p> <p>Divide 5 into 12 (= 2)            Multiply 2 times 5 (= 10)            Subtract 10 from 12 (= 2)            Bring down the 0</p> <p>Divide 5 into 20 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 20 (= 0)            Bring down the 5</p> <p>Divide 5 into 05 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 05 (= 0)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  68253 \text{ R}1 \\  9 \overline{) 614278} \\  \underline{- 54} \qquad (6 \times 9) \\  74 \\  \underline{- 72} \qquad (8 \times 9) \\  22 \\  \underline{- 18} \qquad (2 \times 9) \\  47 \\  \underline{- 45} \qquad (5 \times 9) \\  28 \\  \underline{- 27} \qquad (3 \times 9) \\  1 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 61 (= 6)            Multiply 6 times 9 (= 54)            Subtract 54 from 61 (= 7)            Bring down the 4</p> <p>Divide 9 into 74 (= 8)            Multiply 8 times 9 (= 72)            Subtract 72 from 74 (= 2)            Bring down the 2</p> <p>Divide 9 into 22 (= 2)            Multiply 2 times 9 (= 18)            Subtract 18 from 22 (= 4)            Bring down the 7</p> <p>Divide 9 into 47 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 47 (= 2)            Bring down the 8</p> <p>Divide 9 into 28 (= 3)            Multiply 3 times 9 (= 27)            Subtract 27 from 28 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  55701 \text{ R}1 \\  4 \overline{) 222805} \\  \underline{- 20} \qquad (5 \times 4) \\  22 \\  \underline{- 20} \qquad (5 \times 4) \\  28 \\  \underline{- 28} \qquad (7 \times 4) \\  00 \\  \underline{- 0} \qquad (0 \times 4) \\  05 \\  \underline{- 4} \qquad (1 \times 4) \\  1 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 22 (= 5)            Multiply 5 times 4 (= 20)            Subtract 20 from 22 (= 2)            Bring down the 2</p> <p>Divide 4 into 22 (= 5)            Multiply 5 times 4 (= 20)            Subtract 20 from 22 (= 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 0</p> <p>Divide 4 into 00 (= 0)            Multiply 0 times 4 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 5</p> <p>Divide 4 into 05 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 05 (= 1)            Done. No more numbers to bring down.</p>
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