

# 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)

$$8 \overline{)56235}$$

(2)

$$2 \overline{)13125}$$

(3)

$$2 \overline{)18412}$$

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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}  7029 \text{ R}3 \\  8 \overline{) 56235} \\  \underline{- 56} \qquad (7 \times 8) \\  02 \\  \underline{- 0} \qquad (0 \times 8) \\  23 \\  \underline{- 16} \qquad (2 \times 8) \\  75 \\  \underline{- 72} \qquad (9 \times 8) \\  \text{Remainder -->} \quad 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 56 (= 7)            Multiply 7 times 8 (= 56)            Subtract 56 from 56 (= 0)            Bring down the 2</p> <p>Divide 8 into 02 (= 0)            Multiply 0 times 8 (= 0)            Subtract 0 from 02 (= 2)            Bring down the 3</p> <p>Divide 8 into 23 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 23 (= 7)            Bring down the 5</p> <p>Divide 8 into 75 (= 9)            Multiply 9 times 8 (= 72)            Subtract 72 from 75 (= 3)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  6562 \text{ R}1 \\  2 \overline{) 13125} \\  \underline{- 12} \qquad (6 \times 2) \\  11 \\  \underline{- 10} \qquad (5 \times 2) \\  12 \\  \underline{- 12} \qquad (6 \times 2) \\  05 \\  \underline{- 4} \qquad (2 \times 2) \\  \text{Remainder -->} \quad 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 13 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 13 (= 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 2</p> <p>Divide 2 into 12 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 12 (= 0)            Bring down the 5</p> <p>Divide 2 into 05 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 05 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  9206 \text{ R}0 \\  2 \overline{) 18412} \\  \underline{- 18} \qquad (9 \times 2) \\  04 \\  \underline{- 4} \qquad (2 \times 2) \\  01 \\  \underline{- 0} \qquad (0 \times 2) \\  12 \\  \underline{- 12} \qquad (6 \times 2) \\  \text{Remainder -->} \quad 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 18 (= 9)            Multiply 9 times 2 (= 18)            Subtract 18 from 18 (= 0)            Bring down the 4</p> <p>Divide 2 into 04 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 04 (= 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 2</p> <p>Divide 2 into 12 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 12 (= 0)            Done. No more numbers to bring down.</p>
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