

# 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)

$$825 \overline{) 92836}$$

(2)

$$326 \overline{) 70036}$$

(3)

$$433 \overline{) 19201}$$

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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}  112 \text{ R}436 \\  825 \overline{) 92836} \\  \underline{- 825} \qquad (1 \times 825) \\  1033 \\  \underline{- 825} \qquad (1 \times 825) \\  2086 \\  \underline{- 1650} \qquad (2 \times 825) \\  \text{Remainder --> } 436  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 825 into 928 (= 1)            Multiply 1 times 825 (= 825)            Subtract 825 from 928 (= 103)            Bring down the 3</p> <p>Divide 825 into 1033 (= 1)            Multiply 1 times 825 (= 825)            Subtract 825 from 1033 (= 208)            Bring down the 6</p> <p>Divide 825 into 2086 (= 2)            Multiply 2 times 825 (= 1650)            Subtract 1650 from 2086 (= 436)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  214 \text{ R}272 \\  326 \overline{) 70036} \\  \underline{- 652} \qquad (2 \times 326) \\  483 \\  \underline{- 326} \qquad (1 \times 326) \\  1576 \\  \underline{- 1304} \qquad (4 \times 326) \\  \text{Remainder --> } 272  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 326 into 700 (= 2)            Multiply 2 times 326 (= 652)            Subtract 652 from 700 (= 48)            Bring down the 3</p> <p>Divide 326 into 483 (= 1)            Multiply 1 times 326 (= 326)            Subtract 326 from 483 (= 157)            Bring down the 6</p> <p>Divide 326 into 1576 (= 4)            Multiply 4 times 326 (= 1304)            Subtract 1304 from 1576 (= 272)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  44 \text{ R}149 \\  433 \overline{) 19201} \\  \underline{- 1732} \qquad (4 \times 433) \\  1881 \\  \underline{- 1732} \qquad (4 \times 433) \\  \text{Remainder --> } 149  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 433 into 1920 (= 4)            Multiply 4 times 433 (= 1732)            Subtract 1732 from 1920 (= 188)            Bring down the 1</p> <p>Divide 433 into 1881 (= 4)            Multiply 4 times 433 (= 1732)            Subtract 1732 from 1881 (= 149)            Done. No more numbers to bring down.</p>
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