

# 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)

$$30 \overline{) 8688}$$

(2)

$$86 \overline{) 2914}$$

(3)

$$74 \overline{) 6789}$$

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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}  289 \text{ R}18 \\  30 \overline{) 8688} \\  \underline{- 60} \qquad (2 \times 30) \\  268 \\  \underline{- 240} \qquad (8 \times 30) \\  288 \\  \underline{- 270} \qquad (9 \times 30) \\  18 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 30 into 86 (= 2)            Multiply 2 times 30 (= 60)            Subtract 60 from 86 (= 26)            Bring down the 8</p> <p>Divide 30 into 268 (= 8)            Multiply 8 times 30 (= 240)            Subtract 240 from 268 (= 28)            Bring down the 8</p> <p>Divide 30 into 288 (= 9)            Multiply 9 times 30 (= 270)            Subtract 270 from 288 (= 18)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  33 \text{ R}76 \\  86 \overline{) 2914} \\  \underline{- 258} \qquad (3 \times 86) \\  334 \\  \underline{- 258} \qquad (3 \times 86) \\  76 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 86 into 291 (= 3)            Multiply 3 times 86 (= 258)            Subtract 258 from 291 (= 33)            Bring down the 4</p> <p>Divide 86 into 334 (= 3)            Multiply 3 times 86 (= 258)            Subtract 258 from 334 (= 76)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  91 \text{ R}55 \\  74 \overline{) 6789} \\  \underline{- 666} \qquad (9 \times 74) \\  129 \\  \underline{- 74} \qquad (1 \times 74) \\  55 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 74 into 678 (= 9)            Multiply 9 times 74 (= 666)            Subtract 666 from 678 (= 12)            Bring down the 9</p> <p>Divide 74 into 129 (= 1)            Multiply 1 times 74 (= 74)            Subtract 74 from 129 (= 55)            Done. No more numbers to bring down.</p>
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