

# 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)

$$29 \overline{)804210}$$

(2)

$$97 \overline{)408599}$$

(3)

$$77 \overline{)687630}$$

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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

(1)	(2)	(3)
$  \begin{array}{r}  27731 \text{ R11} \\  29 \overline{)804210} \\  - 58 \\  \hline  224 \\  - 203 \\  \hline  212 \\  - 203 \\  \hline  91 \\  - 87 \\  \hline  40 \\  - 29 \\  \hline  \text{Remainder -->} \quad 11  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 29 into 80 (= 2) Multiply 2 times 29 (= 58) Subtract 58 from 80 (= 22) Bring down the 4</p> <p>Divide 29 into 224 (= 7) Multiply 7 times 29 (= 203) Subtract 203 from 224 (= 21) Bring down the 2</p> <p>Divide 29 into 212 (= 7) Multiply 7 times 29 (= 203) Subtract 203 from 212 (= 9) Bring down the 1</p> <p>Divide 29 into 91 (= 3) Multiply 3 times 29 (= 87) Subtract 87 from 91 (= 4) Bring down the 0</p> <p>Divide 29 into 40 (= 1) Multiply 1 times 29 (= 29) Subtract 29 from 40 (= 11) Done. No more numbers to bring down.</p>	$  \begin{array}{r}  4212 \text{ R35} \\  97 \overline{)408599} \\  - 388 \\  \hline  205 \\  - 194 \\  \hline  119 \\  - 97 \\  \hline  229 \\  - 194 \\  \hline  35  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 97 into 408 (= 4) Multiply 4 times 97 (= 388) Subtract 388 from 408 (= 20) Bring down the 5</p> <p>Divide 97 into 205 (= 2) Multiply 2 times 97 (= 194) Subtract 194 from 205 (= 11) Bring down the 9</p> <p>Divide 97 into 119 (= 1) Multiply 1 times 97 (= 97) Subtract 97 from 119 (= 22) Bring down the 9</p> <p>Divide 97 into 229 (= 2) Multiply 2 times 97 (= 194) Subtract 194 from 229 (= 35) Done. No more numbers to bring down.</p>	$  \begin{array}{r}  8930 \text{ R20} \\  77 \overline{)687630} \\  - 616 \\  \hline  716 \\  - 693 \\  \hline  233 \\  - 231 \\  \hline  20 \\  - 0 \\  \hline  20  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 77 into 687 (= 8) Multiply 8 times 77 (= 616) Subtract 616 from 687 (= 71) Bring down the 6</p> <p>Divide 77 into 716 (= 9) Multiply 9 times 77 (= 693) Subtract 693 from 716 (= 23) Bring down the 3</p> <p>Divide 77 into 233 (= 3) Multiply 3 times 77 (= 231) Subtract 231 from 233 (= 2) Bring down the 0</p> <p>Divide 77 into 20 (= 0) Multiply 0 times 77 (= 0) Subtract 0 from 20 (= 20) Done. No more numbers to bring down.</p>