

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)

$$83 \overline{) 81541}$$

(2)

$$19 \overline{) 19550}$$

(3)

$$87 \overline{) 44071}$$

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

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| <p>(1)</p> $ \begin{array}{r} 982 \text{ R}35 \\ 83 \overline{) 81541} \\ \underline{- 747} \quad (9 \times 83) \\ 684 \\ \underline{- 664} \quad (8 \times 83) \\ 201 \\ \underline{- 166} \quad (2 \times 83) \\ \text{Remainder --> } 35 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 83 into 815 (= 9) Multiply 9 times 83 (= 747) Subtract 747 from 815 (= 68) Bring down the 4</p> <p>Divide 83 into 684 (= 8) Multiply 8 times 83 (= 664) Subtract 664 from 684 (= 20) Bring down the 1</p> <p>Divide 83 into 201 (= 2) Multiply 2 times 83 (= 166) Subtract 166 from 201 (= 35) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 1028 \text{ R}18 \\ 19 \overline{) 19550} \\ \underline{- 19} \quad (1 \times 19) \\ 05 \\ \underline{- 0} \quad (0 \times 19) \\ 55 \\ \underline{- 38} \quad (2 \times 19) \\ 170 \\ \underline{- 152} \quad (8 \times 19) \\ \text{Remainder --> } 18 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 19 into 19 (= 1) Multiply 1 times 19 (= 19) Subtract 19 from 19 (= 0) Bring down the 5</p> <p>Divide 19 into 05 (= 0) Multiply 0 times 19 (= 0) Subtract 0 from 05 (= 5) Bring down the 5</p> <p>Divide 19 into 55 (= 2) Multiply 2 times 19 (= 38) Subtract 38 from 55 (= 17) Bring down the 0</p> <p>Divide 19 into 170 (= 8) Multiply 8 times 19 (= 152) Subtract 152 from 170 (= 18) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 506 \text{ R}49 \\ 87 \overline{) 44071} \\ \underline{- 435} \quad (5 \times 87) \\ 57 \\ \underline{- 0} \quad (0 \times 87) \\ 571 \\ \underline{- 522} \quad (6 \times 87) \\ \text{Remainder --> } 49 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 87 into 440 (= 5) Multiply 5 times 87 (= 435) Subtract 435 from 440 (= 5) Bring down the 7</p> <p>Divide 87 into 57 (= 0) Multiply 0 times 87 (= 0) Subtract 0 from 57 (= 57) Bring down the 1</p> <p>Divide 87 into 571 (= 6) Multiply 6 times 87 (= 522) Subtract 522 from 571 (= 49) Done. No more numbers to bring down.</p> |
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