

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)

$$302 \overline{) 831415}$$

(2)

$$855 \overline{) 624874}$$

(3)

$$862 \overline{) 372730}$$

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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} 2753 \text{ R}9 \\ 302 \overline{) 831415} \\ \underline{- 604} \quad (2 \times 302) \\ 2274 \\ \underline{- 2114} \quad (7 \times 302) \\ 1601 \\ \underline{- 1510} \quad (5 \times 302) \\ 915 \\ \underline{- 906} \quad (3 \times 302) \\ \text{Remainder -->} \quad 9 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 302 into 831 (= 2) Multiply 2 times 302 (= 604) Subtract 604 from 831 (= 227) Bring down the 4</p> <p>Divide 302 into 2274 (= 7) Multiply 7 times 302 (= 2114) Subtract 2114 from 2274 (= 160) Bring down the 1</p> <p>Divide 302 into 1601 (= 5) Multiply 5 times 302 (= 1510) Subtract 1510 from 1601 (= 91) Bring down the 5</p> <p>Divide 302 into 915 (= 3) Multiply 3 times 302 (= 906) Subtract 906 from 915 (= 9) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 730 \text{ R}724 \\ 855 \overline{) 624874} \\ \underline{- 5985} \quad (7 \times 855) \\ 2637 \\ \underline{- 2565} \quad (3 \times 855) \\ 724 \\ \underline{- 0} \quad (0 \times 855) \\ \text{Remainder -->} \quad 724 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 855 into 6248 (= 7) Multiply 7 times 855 (= 5985) Subtract 5985 from 6248 (= 263) Bring down the 7</p> <p>Divide 855 into 2637 (= 3) Multiply 3 times 855 (= 2565) Subtract 2565 from 2637 (= 72) Bring down the 4</p> <p>Divide 855 into 724 (= 0) Multiply 0 times 855 (= 0) Subtract 0 from 724 (= 724) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 432 \text{ R}346 \\ 862 \overline{) 372730} \\ \underline{- 3448} \quad (4 \times 862) \\ 2793 \\ \underline{- 2586} \quad (3 \times 862) \\ 2070 \\ \underline{- 1724} \quad (2 \times 862) \\ \text{Remainder -->} \quad 346 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 862 into 3727 (= 4) Multiply 4 times 862 (= 3448) Subtract 3448 from 3727 (= 279) Bring down the 3</p> <p>Divide 862 into 2793 (= 3) Multiply 3 times 862 (= 2586) Subtract 2586 from 2793 (= 207) Bring down the 0</p> <p>Divide 862 into 2070 (= 2) Multiply 2 times 862 (= 1724) Subtract 1724 from 2070 (= 346) Done. No more numbers to bring down.</p> |
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