

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)

$$71 \overline{) 2819664}$$

(2)

$$18 \overline{) 2722019}$$

(3)

$$83 \overline{) 9261497}$$

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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} 39713 \text{ R}41 \\ 71 \overline{) 2819664} \\ \underline{- 213} \quad (3 \times 71) \\ 689 \\ \underline{- 639} \quad (9 \times 71) \\ 506 \\ \underline{- 497} \quad (7 \times 71) \\ 96 \\ \underline{- 71} \quad (1 \times 71) \\ 254 \\ \underline{- 213} \quad (3 \times 71) \\ \text{Remainder -->} \quad 41 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 71 into 281 (= 3) Multiply 3 times 71 (= 213) Subtract 213 from 281 (= 68) Bring down the 9</p> <p>Divide 71 into 689 (= 9) Multiply 9 times 71 (= 639) Subtract 639 from 689 (= 50) Bring down the 6</p> <p>Divide 71 into 506 (= 7) Multiply 7 times 71 (= 497) Subtract 497 from 506 (= 9) Bring down the 6</p> <p>Divide 71 into 96 (= 1) Multiply 1 times 71 (= 71) Subtract 71 from 96 (= 25) Bring down the 4</p> <p>Divide 71 into 254 (= 3) Multiply 3 times 71 (= 213) Subtract 213 from 254 (= 41) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 151223 \text{ R}5 \\ 18 \overline{) 2722019} \\ \underline{- 18} \quad (1 \times 18) \\ 92 \\ \underline{- 90} \quad (5 \times 18) \\ 22 \\ \underline{- 18} \quad (1 \times 18) \\ 40 \\ \underline{- 36} \quad (2 \times 18) \\ 41 \\ \underline{- 36} \quad (2 \times 18) \\ 59 \\ \underline{- 54} \quad (3 \times 18) \\ \text{Remainder -->} \quad 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 18 into 27 (= 1) Multiply 1 times 18 (= 18) Subtract 18 from 27 (= 9) Bring down the 2</p> <p>Divide 18 into 92 (= 5) Multiply 5 times 18 (= 90) Subtract 90 from 92 (= 2) Bring down the 2</p> <p>Divide 18 into 22 (= 1) Multiply 1 times 18 (= 18) Subtract 18 from 22 (= 4) Bring down the 0</p> <p>Divide 18 into 40 (= 2) Multiply 2 times 18 (= 36) Subtract 36 from 40 (= 4) Bring down the 1</p> <p>Divide 18 into 41 (= 2) Multiply 2 times 18 (= 36) Subtract 36 from 41 (= 5) Bring down the 9</p> <p>Divide 18 into 59 (= 3) Multiply 3 times 18 (= 54) Subtract 54 from 59 (= 5) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 111584 \text{ R}25 \\ 83 \overline{) 9261497} \\ \underline{- 83} \quad (1 \times 83) \\ 96 \\ \underline{- 83} \quad (1 \times 83) \\ 131 \\ \underline{- 83} \quad (1 \times 83) \\ 484 \\ \underline{- 415} \quad (5 \times 83) \\ 699 \\ \underline{- 664} \quad (8 \times 83) \\ 357 \\ \underline{- 332} \quad (4 \times 83) \\ \text{Remainder -->} \quad 25 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 83 into 92 (= 1) Multiply 1 times 83 (= 83) Subtract 83 from 92 (= 9) Bring down the 6</p> <p>Divide 83 into 96 (= 1) Multiply 1 times 83 (= 83) Subtract 83 from 96 (= 13) Bring down the 1</p> <p>Divide 83 into 131 (= 1) Multiply 1 times 83 (= 83) Subtract 83 from 131 (= 48) Bring down the 4</p> <p>Divide 83 into 484 (= 5) Multiply 5 times 83 (= 415) Subtract 415 from 484 (= 69) Bring down the 9</p> <p>Divide 83 into 699 (= 8) Multiply 8 times 83 (= 664) Subtract 664 from 699 (= 35) Bring down the 7</p> <p>Divide 83 into 357 (= 4) Multiply 4 times 83 (= 332) Subtract 332 from 357 (= 25) Done. No more numbers to bring down.</p> |
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