

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)

$$71 \overline{) 1883164}$$

(2)

$$21 \overline{) 7379712}$$

(3)

$$95 \overline{) 2200972}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

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

<p>(1)</p> $ \begin{array}{r} 26523 \text{ R}31 \\ 71 \overline{) 1883164} \\ \underline{- 142} \quad (2 \times 71) \\ 463 \\ \underline{- 426} \quad (6 \times 71) \\ 371 \\ \underline{- 355} \quad (5 \times 71) \\ 166 \\ \underline{- 142} \quad (2 \times 71) \\ 244 \\ \underline{- 213} \quad (3 \times 71) \\ \text{Remainder -->} \quad 31 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 71 into 188 (= 2) Multiply 2 times 71 (= 142) Subtract 142 from 188 (= 46) Bring down the 3</p> <p>Divide 71 into 463 (= 6) Multiply 6 times 71 (= 426) Subtract 426 from 463 (= 37) Bring down the 1</p> <p>Divide 71 into 371 (= 5) Multiply 5 times 71 (= 355) Subtract 355 from 371 (= 16) Bring down the 6</p> <p>Divide 71 into 166 (= 2) Multiply 2 times 71 (= 142) Subtract 142 from 166 (= 24) Bring down the 4</p> <p>Divide 71 into 244 (= 3) Multiply 3 times 71 (= 213) Subtract 213 from 244 (= 31) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 351414 \text{ R}18 \\ 21 \overline{) 7379712} \\ \underline{- 63} \quad (3 \times 21) \\ 107 \\ \underline{- 105} \quad (5 \times 21) \\ 29 \\ \underline{- 21} \quad (1 \times 21) \\ 87 \\ \underline{- 84} \quad (4 \times 21) \\ 31 \\ \underline{- 21} \quad (1 \times 21) \\ 102 \\ \underline{- 84} \quad (4 \times 21) \\ \text{Remainder -->} \quad 18 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 21 into 73 (= 3) Multiply 3 times 21 (= 63) Subtract 63 from 73 (= 10) Bring down the 7</p> <p>Divide 21 into 107 (= 5) Multiply 5 times 21 (= 105) Subtract 105 from 107 (= 2) Bring down the 9</p> <p>Divide 21 into 29 (= 1) Multiply 1 times 21 (= 21) Subtract 21 from 29 (= 8) Bring down the 7</p> <p>Divide 21 into 87 (= 4) Multiply 4 times 21 (= 84) Subtract 84 from 87 (= 3) Bring down the 1</p> <p>Divide 21 into 31 (= 1) Multiply 1 times 21 (= 21) Subtract 21 from 31 (= 10) Bring down the 2</p> <p>Divide 21 into 102 (= 4) Multiply 4 times 21 (= 84) Subtract 84 from 102 (= 18) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 23168 \text{ R}12 \\ 95 \overline{) 2200972} \\ \underline{- 190} \quad (2 \times 95) \\ 300 \\ \underline{- 285} \quad (3 \times 95) \\ 159 \\ \underline{- 95} \quad (1 \times 95) \\ 647 \\ \underline{- 570} \quad (6 \times 95) \\ 772 \\ \underline{- 760} \quad (8 \times 95) \\ \text{Remainder -->} \quad 12 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 95 into 220 (= 2) Multiply 2 times 95 (= 190) Subtract 190 from 220 (= 30) Bring down the 0</p> <p>Divide 95 into 300 (= 3) Multiply 3 times 95 (= 285) Subtract 285 from 300 (= 15) Bring down the 9</p> <p>Divide 95 into 159 (= 1) Multiply 1 times 95 (= 95) Subtract 95 from 159 (= 64) Bring down the 7</p> <p>Divide 95 into 647 (= 6) Multiply 6 times 95 (= 570) Subtract 570 from 647 (= 77) Bring down the 2</p> <p>Divide 95 into 772 (= 8) Multiply 8 times 95 (= 760) Subtract 760 from 772 (= 12) Done. No more numbers to bring down.</p>
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