

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)

$$99 \overline{) 900964}$$

(2)

$$48 \overline{) 709131}$$

(3)

$$72 \overline{) 644844}$$

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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} 9100 \text{ R}64 \\ 99 \overline{) 900964} \\ \underline{- 891} \quad (9 \times 99) \\ 99 \\ \underline{- 99} \quad (1 \times 99) \\ 06 \\ \underline{- 0} \quad (0 \times 99) \\ 64 \\ \underline{- 0} \quad (0 \times 99) \\ 64 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 99 into 900 (= 9) Multiply 9 times 99 (= 891) Subtract 891 from 900 (= 9) Bring down the 9</p> <p>Divide 99 into 99 (= 1) Multiply 1 times 99 (= 99) Subtract 99 from 99 (= 0) Bring down the 6</p> <p>Divide 99 into 06 (= 0) Multiply 0 times 99 (= 0) Subtract 0 from 06 (= 6) Bring down the 4</p> <p>Divide 99 into 64 (= 0) Multiply 0 times 99 (= 0) Subtract 0 from 64 (= 64) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 14773 \text{ R}27 \\ 48 \overline{) 709131} \\ \underline{- 48} \quad (1 \times 48) \\ 229 \\ \underline{- 192} \quad (4 \times 48) \\ 371 \\ \underline{- 336} \quad (7 \times 48) \\ 353 \\ \underline{- 336} \quad (7 \times 48) \\ 171 \\ \underline{- 144} \quad (3 \times 48) \\ 27 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 48 into 70 (= 1) Multiply 1 times 48 (= 48) Subtract 48 from 70 (= 22) Bring down the 9</p> <p>Divide 48 into 229 (= 4) Multiply 4 times 48 (= 192) Subtract 192 from 229 (= 37) Bring down the 1</p> <p>Divide 48 into 371 (= 7) Multiply 7 times 48 (= 336) Subtract 336 from 371 (= 35) Bring down the 3</p> <p>Divide 48 into 353 (= 7) Multiply 7 times 48 (= 336) Subtract 336 from 353 (= 17) Bring down the 1</p> <p>Divide 48 into 171 (= 3) Multiply 3 times 48 (= 144) Subtract 144 from 171 (= 27) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 8956 \text{ R}12 \\ 72 \overline{) 644844} \\ \underline{- 576} \quad (8 \times 72) \\ 688 \\ \underline{- 648} \quad (9 \times 72) \\ 404 \\ \underline{- 360} \quad (5 \times 72) \\ 444 \\ \underline{- 432} \quad (6 \times 72) \\ 12 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 72 into 644 (= 8) Multiply 8 times 72 (= 576) Subtract 576 from 644 (= 68) Bring down the 8</p> <p>Divide 72 into 688 (= 9) Multiply 9 times 72 (= 648) Subtract 648 from 688 (= 40) Bring down the 4</p> <p>Divide 72 into 404 (= 5) Multiply 5 times 72 (= 360) Subtract 360 from 404 (= 44) Bring down the 4</p> <p>Divide 72 into 444 (= 6) Multiply 6 times 72 (= 432) Subtract 432 from 444 (= 12) Done. No more numbers to bring down.</p>
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