

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)

$$2 \overline{) 368501}$$

(2)

$$8 \overline{) 127235}$$

(3)

$$9 \overline{) 976368}$$

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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} 184250 \text{ R1} \\ 2 \overline{) 368501} \\ \underline{- 2} \qquad (1 \times 2) \\ 16 \\ \underline{- 16} \qquad (8 \times 2) \\ 08 \\ \underline{- 8} \qquad (4 \times 2) \\ 05 \\ \underline{- 4} \qquad (2 \times 2) \\ 10 \\ \underline{- 10} \qquad (5 \times 2) \\ 01 \\ \underline{- 0} \qquad (0 \times 2) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 3 (= 1) Multiply 1 times 2 (= 2) Subtract 2 from 3 (= 1) Bring down the 6</p> <p>Divide 2 into 16 (= 8) Multiply 8 times 2 (= 16) Subtract 16 from 16 (= 0) Bring down the 8</p> <p>Divide 2 into 08 (= 4) Multiply 4 times 2 (= 8) Subtract 8 from 08 (= 0) Bring down the 5</p> <p>Divide 2 into 05 (= 2) Multiply 2 times 2 (= 4) Subtract 4 from 05 (= 1) Bring down the 0</p> <p>Divide 2 into 10 (= 5) Multiply 5 times 2 (= 10) Subtract 10 from 10 (= 0) Bring down the 1</p> <p>Divide 2 into 01 (= 0) Multiply 0 times 2 (= 0) Subtract 0 from 01 (= 1) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 15904 \text{ R3} \\ 8 \overline{) 127235} \\ \underline{- 8} \qquad (1 \times 8) \\ 47 \\ \underline{- 40} \qquad (5 \times 8) \\ 72 \\ \underline{- 72} \qquad (9 \times 8) \\ 03 \\ \underline{- 0} \qquad (0 \times 8) \\ 35 \\ \underline{- 32} \qquad (4 \times 8) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 12 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 12 (= 4) Bring down the 7</p> <p>Divide 8 into 47 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 47 (= 7) Bring down the 2</p> <p>Divide 8 into 72 (= 9) Multiply 9 times 8 (= 72) Subtract 72 from 72 (= 0) Bring down the 3</p> <p>Divide 8 into 03 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 03 (= 3) Bring down the 5</p> <p>Divide 8 into 35 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 35 (= 3) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 108485 \text{ R3} \\ 9 \overline{) 976368} \\ \underline{- 9} \qquad (1 \times 9) \\ 07 \\ \underline{- 0} \qquad (0 \times 9) \\ 76 \\ \underline{- 72} \qquad (8 \times 9) \\ 43 \\ \underline{- 36} \qquad (4 \times 9) \\ 76 \\ \underline{- 72} \qquad (8 \times 9) \\ 48 \\ \underline{- 45} \qquad (5 \times 9) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 9 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 9 (= 0) Bring down the 7</p> <p>Divide 9 into 07 (= 0) Multiply 0 times 9 (= 0) Subtract 0 from 07 (= 7) Bring down the 6</p> <p>Divide 9 into 76 (= 8) Multiply 8 times 9 (= 72) Subtract 72 from 76 (= 4) Bring down the 3</p> <p>Divide 9 into 43 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 43 (= 7) Bring down the 6</p> <p>Divide 9 into 76 (= 8) Multiply 8 times 9 (= 72) Subtract 72 from 76 (= 4) Bring down the 8</p> <p>Divide 9 into 48 (= 5) Multiply 5 times 9 (= 45) Subtract 45 from 48 (= 3) Done. No more numbers to bring down.</p>
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