

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)

$$12 \overline{) 40726}$$

(2)

$$29 \overline{) 30250}$$

(3)

$$75 \overline{) 36189}$$

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

<p>(1)</p> $ \begin{array}{r} 3393 \text{ R}10 \\ 12 \overline{) 40726} \\ \underline{- 36} \qquad (3 \times 12) \\ 47 \\ \underline{- 36} \qquad (3 \times 12) \\ 112 \\ \underline{- 108} \qquad (9 \times 12) \\ 46 \\ \underline{- 36} \qquad (3 \times 12) \\ \text{Remainder --> } 10 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 12 into 40 (= 3) Multiply 3 times 12 (= 36) Subtract 36 from 40 (= 4) Bring down the 7</p> <p>Divide 12 into 47 (= 3) Multiply 3 times 12 (= 36) Subtract 36 from 47 (= 11) Bring down the 2</p> <p>Divide 12 into 112 (= 9) Multiply 9 times 12 (= 108) Subtract 108 from 112 (= 4) Bring down the 6</p> <p>Divide 12 into 46 (= 3) Multiply 3 times 12 (= 36) Subtract 36 from 46 (= 10) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1043 \text{ R}3 \\ 29 \overline{) 30250} \\ \underline{- 29} \qquad (1 \times 29) \\ 12 \\ \underline{- 0} \qquad (0 \times 29) \\ 125 \\ \underline{- 116} \qquad (4 \times 29) \\ 90 \\ \underline{- 87} \qquad (3 \times 29) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 29 into 30 (= 1) Multiply 1 times 29 (= 29) Subtract 29 from 30 (= 1) Bring down the 2</p> <p>Divide 29 into 12 (= 0) Multiply 0 times 29 (= 0) Subtract 0 from 12 (= 12) Bring down the 5</p> <p>Divide 29 into 125 (= 4) Multiply 4 times 29 (= 116) Subtract 116 from 125 (= 9) Bring down the 0</p> <p>Divide 29 into 90 (= 3) Multiply 3 times 29 (= 87) Subtract 87 from 90 (= 3) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 482 \text{ R}39 \\ 75 \overline{) 36189} \\ \underline{- 300} \qquad (4 \times 75) \\ 618 \\ \underline{- 600} \qquad (8 \times 75) \\ 189 \\ \underline{- 150} \qquad (2 \times 75) \\ \text{Remainder --> } 39 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 75 into 361 (= 4) Multiply 4 times 75 (= 300) Subtract 300 from 361 (= 61) Bring down the 8</p> <p>Divide 75 into 618 (= 8) Multiply 8 times 75 (= 600) Subtract 600 from 618 (= 18) Bring down the 9</p> <p>Divide 75 into 189 (= 2) Multiply 2 times 75 (= 150) Subtract 150 from 189 (= 39) Done. No more numbers to bring down.</p>
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