

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)

$$5 \overline{) 9292}$$

(2)

$$8 \overline{) 8244}$$

(3)

$$3 \overline{) 1141}$$

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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} 1858 \text{ R}2 \\ 5 \overline{) 9292} \\ \underline{- 5} \qquad (1 \times 5) \\ 42 \\ \underline{- 40} \qquad (8 \times 5) \\ 29 \\ \underline{- 25} \qquad (5 \times 5) \\ 42 \\ \underline{- 40} \qquad (8 \times 5) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 9 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 9 (= 4) Bring down the 2</p> <p>Divide 5 into 42 (= 8) Multiply 8 times 5 (= 40) Subtract 40 from 42 (= 2) Bring down the 9</p> <p>Divide 5 into 29 (= 5) Multiply 5 times 5 (= 25) Subtract 25 from 29 (= 4) Bring down the 2</p> <p>Divide 5 into 42 (= 8) Multiply 8 times 5 (= 40) Subtract 40 from 42 (= 2) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 1030 \text{ R}4 \\ 8 \overline{) 8244} \\ \underline{- 8} \qquad (1 \times 8) \\ 02 \\ \underline{- 0} \qquad (0 \times 8) \\ 24 \\ \underline{- 24} \qquad (3 \times 8) \\ 04 \\ \underline{- 0} \qquad (0 \times 8) \\ \text{Remainder --> } 4 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 8 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 8 (= 0) Bring down the 2</p> <p>Divide 8 into 02 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 02 (= 2) Bring down the 4</p> <p>Divide 8 into 24 (= 3) Multiply 3 times 8 (= 24) Subtract 24 from 24 (= 0) Bring down the 4</p> <p>Divide 8 into 04 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 04 (= 4) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 380 \text{ R}1 \\ 3 \overline{) 1141} \\ \underline{- 9} \qquad (3 \times 3) \\ 24 \\ \underline{- 24} \qquad (8 \times 3) \\ 01 \\ \underline{- 0} \qquad (0 \times 3) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 11 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 11 (= 2) Bring down the 4</p> <p>Divide 3 into 24 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 24 (= 0) Bring down the 1</p> <p>Divide 3 into 01 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 01 (= 1) Done. No more numbers to bring down.</p> |
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