

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)

$$4 \overline{) 7628}$$

(2)

$$4 \overline{) 8147}$$

(3)

$$9 \overline{) 3720}$$

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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} 1907 \text{ R}0 \\ 4 \overline{) 7628} \\ \underline{- 4} \qquad (1 \times 4) \\ 36 \\ \underline{- 36} \qquad (9 \times 4) \\ 02 \\ \underline{- 0} \qquad (0 \times 4) \\ 28 \\ \underline{- 28} \qquad (7 \times 4) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 7 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 7 (= 3) Bring down the 6</p> <p>Divide 4 into 36 (= 9) Multiply 9 times 4 (= 36) Subtract 36 from 36 (= 0) Bring down the 2</p> <p>Divide 4 into 02 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 02 (= 2) Bring down the 8</p> <p>Divide 4 into 28 (= 7) Multiply 7 times 4 (= 28) Subtract 28 from 28 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 2036 \text{ R}3 \\ 4 \overline{) 8147} \\ \underline{- 8} \qquad (2 \times 4) \\ 01 \\ \underline{- 0} \qquad (0 \times 4) \\ 14 \\ \underline{- 12} \qquad (3 \times 4) \\ 27 \\ \underline{- 24} \qquad (6 \times 4) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 8 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 8 (= 0) Bring down the 1</p> <p>Divide 4 into 01 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 01 (= 1) Bring down the 4</p> <p>Divide 4 into 14 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 14 (= 2) Bring down the 7</p> <p>Divide 4 into 27 (= 6) Multiply 6 times 4 (= 24) Subtract 24 from 27 (= 3) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 413 \text{ R}3 \\ 9 \overline{) 3720} \\ \underline{- 36} \qquad (4 \times 9) \\ 12 \\ \underline{- 9} \qquad (1 \times 9) \\ 30 \\ \underline{- 27} \qquad (3 \times 9) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 37 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 37 (= 1) Bring down the 2</p> <p>Divide 9 into 12 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 12 (= 3) Bring down the 0</p> <p>Divide 9 into 30 (= 3) Multiply 3 times 9 (= 27) Subtract 27 from 30 (= 3) Done. No more numbers to bring down.</p>
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