

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)

$$4 \overline{) 49613}$$

(2)

$$9 \overline{) 40947}$$

(3)

$$4 \overline{) 68406}$$

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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} 12403 \text{ R1} \\ 4 \overline{) 49613} \\ \underline{- 4} \qquad (1 \times 4) \\ 09 \\ \underline{- 8} \qquad (2 \times 4) \\ 16 \\ \underline{- 16} \qquad (4 \times 4) \\ 01 \\ \underline{- 0} \qquad (0 \times 4) \\ 13 \\ \underline{- 12} \qquad (3 \times 4) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 4 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 4 (= 0) Bring down the 9</p> <p>Divide 4 into 09 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 09 (= 1) Bring down the 6</p> <p>Divide 4 into 16 (= 4) Multiply 4 times 4 (= 16) Subtract 16 from 16 (= 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 3</p> <p>Divide 4 into 13 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 13 (= 1) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 4549 \text{ R6} \\ 9 \overline{) 40947} \\ \underline{- 36} \qquad (4 \times 9) \\ 49 \\ \underline{- 45} \qquad (5 \times 9) \\ 44 \\ \underline{- 36} \qquad (4 \times 9) \\ 87 \\ \underline{- 81} \qquad (9 \times 9) \\ \text{Remainder --> } 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 40 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 40 (= 4) Bring down the 9</p> <p>Divide 9 into 49 (= 5) Multiply 5 times 9 (= 45) Subtract 45 from 49 (= 4) Bring down the 4</p> <p>Divide 9 into 44 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 44 (= 8) Bring down the 7</p> <p>Divide 9 into 87 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 87 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 17101 \text{ R2} \\ 4 \overline{) 68406} \\ \underline{- 4} \qquad (1 \times 4) \\ 28 \\ \underline{- 28} \qquad (7 \times 4) \\ 04 \\ \underline{- 4} \qquad (1 \times 4) \\ 00 \\ \underline{- 0} \qquad (0 \times 4) \\ 06 \\ \underline{- 4} \qquad (1 \times 4) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 6 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 6 (= 2) Bring down the 8</p> <p>Divide 4 into 28 (= 7) Multiply 7 times 4 (= 28) Subtract 28 from 28 (= 0) Bring down the 4</p> <p>Divide 4 into 04 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 04 (= 0) Bring down the 0</p> <p>Divide 4 into 00 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 00 (= 0) Bring down the 6</p> <p>Divide 4 into 06 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 06 (= 2) Done. No more numbers to bring down.</p>
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