

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)

$$3 \overline{)4090406}$$

(2)

$$5 \overline{)2147612}$$

(3)

$$4 \overline{)8768561}$$

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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} 1363468 \text{ R2} \\ 3 \overline{) 4090406} \\ \underline{- 3} \quad (1 \times 3) \\ 10 \\ \underline{- 9} \quad (3 \times 3) \\ 19 \\ \underline{- 18} \quad (6 \times 3) \\ 10 \\ \underline{- 9} \quad (3 \times 3) \\ 14 \\ \underline{- 12} \quad (4 \times 3) \\ 20 \\ \underline{- 18} \quad (6 \times 3) \\ 26 \\ \underline{- 24} \quad (8 \times 3) \\ \text{Remainder -->} \quad 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 4 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 4 (= 1) Bring down the 0</p> <p>Divide 3 into 10 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 10 (= 1) Bring down the 9</p> <p>Divide 3 into 19 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 19 (= 1) Bring down the 0</p> <p>Divide 3 into 10 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 10 (= 1) Bring down the 4</p> <p>Divide 3 into 14 (= 4) Multiply 4 times 3 (= 12) Subtract 12 from 14 (= 2) Bring down the 0</p> <p>Divide 3 into 20 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 20 (= 2) Bring down the 6</p>	<p>(2)</p> $ \begin{array}{r} 429522 \text{ R2} \\ 5 \overline{) 2147612} \\ \underline{- 20} \quad (4 \times 5) \\ 14 \\ \underline{- 10} \quad (2 \times 5) \\ 47 \\ \underline{- 45} \quad (9 \times 5) \\ 26 \\ \underline{- 25} \quad (5 \times 5) \\ 11 \\ \underline{- 10} \quad (2 \times 5) \\ 12 \\ \underline{- 10} \quad (2 \times 5) \\ \text{Remainder -->} \quad 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 21 (= 4) Multiply 4 times 5 (= 20) Subtract 20 from 21 (= 1) Bring down the 4</p> <p>Divide 5 into 14 (= 2) Multiply 2 times 5 (= 10) Subtract 10 from 14 (= 4) Bring down the 7</p> <p>Divide 5 into 47 (= 9) Multiply 9 times 5 (= 45) Subtract 45 from 47 (= 2) Bring down the 6</p> <p>Divide 5 into 26 (= 5) Multiply 5 times 5 (= 25) Subtract 25 from 26 (= 1) Bring down the 1</p> <p>Divide 5 into 11 (= 2) Multiply 2 times 5 (= 10) Subtract 10 from 11 (= 1) Bring down the 2</p> <p>Divide 5 into 12 (= 2) Multiply 2 times 5 (= 10) Subtract 10 from 12 (= 2) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 2192140 \text{ R1} \\ 4 \overline{) 8768561} \\ \underline{- 8} \quad (2 \times 4) \\ 07 \\ \underline{- 4} \quad (1 \times 4) \\ 36 \\ \underline{- 36} \quad (9 \times 4) \\ 08 \\ \underline{- 8} \quad (2 \times 4) \\ 05 \\ \underline{- 4} \quad (1 \times 4) \\ 16 \\ \underline{- 16} \quad (4 \times 4) \\ 01 \\ \underline{- 0} \quad (0 \times 4) \\ \text{Remainder -->} \quad 1 \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 7</p> <p>Divide 4 into 07 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 07 (= 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 8</p> <p>Divide 4 into 08 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 08 (= 0) Bring down the 5</p> <p>Divide 4 into 05 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 05 (= 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 3 into 26 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 26 (= 2) Done. No more numbers to bring down.</p>	<p>www.worksheetsandwalkthroughs.com, Page 2/2</p>	<p>Divide 4 into 01 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 01 (= 1) Done. No more numbers to bring down.</p>