

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)

$$8 \overline{) 381411}$$

(2)

$$6 \overline{) 541200}$$

(3)

$$5 \overline{) 195703}$$

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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} 47676 \text{ R}3 \\ 8 \overline{) 381411} \\ \underline{- 32} \qquad (4 \times 8) \\ 61 \\ \underline{- 56} \qquad (7 \times 8) \\ 54 \\ \underline{- 48} \qquad (6 \times 8) \\ 61 \\ \underline{- 56} \qquad (7 \times 8) \\ 51 \\ \underline{- 48} \qquad (6 \times 8) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 38 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 38 (= 6) Bring down the 1</p> <p>Divide 8 into 61 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 61 (= 5) Bring down the 4</p> <p>Divide 8 into 54 (= 6) Multiply 6 times 8 (= 48) Subtract 48 from 54 (= 6) Bring down the 1</p> <p>Divide 8 into 61 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 61 (= 5) Bring down the 1</p> <p>Divide 8 into 51 (= 6) Multiply 6 times 8 (= 48) Subtract 48 from 51 (= 3) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 90200 \text{ R}0 \\ 6 \overline{) 541200} \\ \underline{- 54} \qquad (9 \times 6) \\ 01 \\ \underline{- 0} \qquad (0 \times 6) \\ 12 \\ \underline{- 12} \qquad (2 \times 6) \\ 00 \\ \underline{- 0} \qquad (0 \times 6) \\ 00 \\ \underline{- 0} \qquad (0 \times 6) \\ \text{Remainder -->} \quad 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 54 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 54 (= 0) Bring down the 1</p> <p>Divide 6 into 01 (= 0) Multiply 0 times 6 (= 0) Subtract 0 from 01 (= 1) Bring down the 2</p> <p>Divide 6 into 12 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 12 (= 0) Bring down the 0</p> <p>Divide 6 into 00 (= 0) Multiply 0 times 6 (= 0) Subtract 0 from 00 (= 0) Bring down the 0</p> <p>Divide 6 into 00 (= 0) Multiply 0 times 6 (= 0) Subtract 0 from 00 (= 0) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 39140 \text{ R}3 \\ 5 \overline{) 195703} \\ \underline{- 15} \qquad (3 \times 5) \\ 45 \\ \underline{- 45} \qquad (9 \times 5) \\ 07 \\ \underline{- 5} \qquad (1 \times 5) \\ 20 \\ \underline{- 20} \qquad (4 \times 5) \\ 03 \\ \underline{- 0} \qquad (0 \times 5) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 19 (= 3) Multiply 3 times 5 (= 15) Subtract 15 from 19 (= 4) Bring down the 5</p> <p>Divide 5 into 45 (= 9) Multiply 9 times 5 (= 45) Subtract 45 from 45 (= 0) Bring down the 7</p> <p>Divide 5 into 07 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 07 (= 2) Bring down the 0</p> <p>Divide 5 into 20 (= 4) Multiply 4 times 5 (= 20) Subtract 20 from 20 (= 0) Bring down the 3</p> <p>Divide 5 into 03 (= 0) Multiply 0 times 5 (= 0) Subtract 0 from 03 (= 3) Done. No more numbers to bring down.</p> |
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