

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

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| (1) <div>6 108641</div> | (2) <div>3 494613</div> | (3) <div>5 520788</div> |
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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} 18106 \text{ R}5 \\ 6 \overline{) 108641} \\ \underline{- 6} (1 \times 6) \\ 48 \\ \underline{- 48} (8 \times 6) \\ 06 \\ \underline{- 6} (1 \times 6) \\ 04 \\ \underline{- 0} (0 \times 6) \\ 41 \\ \underline{- 36} (6 \times 6) \\ \text{Remainder -->} 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 10 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 10 (= 4) Bring down the 8</p> <p>Divide 6 into 48 (= 8) Multiply 8 times 6 (= 48) Subtract 48 from 48 (= 0) Bring down the 6</p> <p>Divide 6 into 06 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 06 (= 0) Bring down the 4</p> <p>Divide 6 into 04 (= 0) Multiply 0 times 6 (= 0) Subtract 0 from 04 (= 4) Bring down the 1</p> <p>Divide 6 into 41 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 41 (= 5) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 164871 \text{ R}0 \\ 3 \overline{) 494613} \\ \underline{- 3} (1 \times 3) \\ 19 \\ \underline{- 18} (6 \times 3) \\ 14 \\ \underline{- 12} (4 \times 3) \\ 26 \\ \underline{- 24} (8 \times 3) \\ 21 \\ \underline{- 21} (7 \times 3) \\ 03 \\ \underline{- 3} (1 \times 3) \\ \text{Remainder -->} 0 \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 9</p> <p>Divide 3 into 19 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 19 (= 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 6</p> <p>Divide 3 into 26 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 26 (= 2) Bring down the 1</p> <p>Divide 3 into 21 (= 7) Multiply 7 times 3 (= 21) Subtract 21 from 21 (= 0) Bring down the 3</p> <p>Divide 3 into 03 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 03 (= 0) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 104157 \text{ R}3 \\ 5 \overline{) 520788} \\ \underline{- 5} (1 \times 5) \\ 02 \\ \underline{- 0} (0 \times 5) \\ 20 \\ \underline{- 20} (4 \times 5) \\ 07 \\ \underline{- 5} (1 \times 5) \\ 28 \\ \underline{- 25} (5 \times 5) \\ 38 \\ \underline{- 35} (7 \times 5) \\ \text{Remainder -->} 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 5 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 5 (= 0) Bring down the 2</p> <p>Divide 5 into 02 (= 0) Multiply 0 times 5 (= 0) Subtract 0 from 02 (= 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 7</p> <p>Divide 5 into 07 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 07 (= 2) Bring down the 8</p> <p>Divide 5 into 28 (= 5) Multiply 5 times 5 (= 25) Subtract 25 from 28 (= 3) Bring down the 8</p> <p>Divide 5 into 38 (= 7) Multiply 7 times 5 (= 35) Subtract 35 from 38 (= 3) Done. No more numbers to bring down.</p> |
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