

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)

$$7 \overline{)78459}$$

(2)

$$8 \overline{)22016}$$

(3)

$$8 \overline{)85594}$$

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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} 11208 \text{ R}3 \\ 7 \overline{) 78459} \\ \underline{- 7} \qquad (1 \times 7) \\ 08 \\ \underline{- 7} \qquad (1 \times 7) \\ 14 \\ \underline{- 14} \qquad (2 \times 7) \\ 05 \\ \underline{- 0} \qquad (0 \times 7) \\ 59 \\ \underline{- 56} \qquad (8 \times 7) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 7 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 7 (= 0) Bring down the 8</p> <p>Divide 7 into 08 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 08 (= 1) Bring down the 4</p> <p>Divide 7 into 14 (= 2) Multiply 2 times 7 (= 14) Subtract 14 from 14 (= 0) Bring down the 5</p> <p>Divide 7 into 05 (= 0) Multiply 0 times 7 (= 0) Subtract 0 from 05 (= 5) Bring down the 9</p> <p>Divide 7 into 59 (= 8) Multiply 8 times 7 (= 56) Subtract 56 from 59 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 2752 \text{ R}0 \\ 8 \overline{) 22016} \\ \underline{- 16} \qquad (2 \times 8) \\ 60 \\ \underline{- 56} \qquad (7 \times 8) \\ 41 \\ \underline{- 40} \qquad (5 \times 8) \\ 16 \\ \underline{- 16} \qquad (2 \times 8) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 22 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 22 (= 6) Bring down the 0</p> <p>Divide 8 into 60 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 60 (= 4) Bring down the 1</p> <p>Divide 8 into 41 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 41 (= 1) Bring down the 6</p> <p>Divide 8 into 16 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 16 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 10699 \text{ R}2 \\ 8 \overline{) 85594} \\ \underline{- 8} \qquad (1 \times 8) \\ 05 \\ \underline{- 0} \qquad (0 \times 8) \\ 55 \\ \underline{- 48} \qquad (6 \times 8) \\ 79 \\ \underline{- 72} \qquad (9 \times 8) \\ 74 \\ \underline{- 72} \qquad (9 \times 8) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 8 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 8 (= 0) Bring down the 5</p> <p>Divide 8 into 05 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 05 (= 5) Bring down the 5</p> <p>Divide 8 into 55 (= 6) Multiply 6 times 8 (= 48) Subtract 48 from 55 (= 7) Bring down the 9</p> <p>Divide 8 into 79 (= 9) Multiply 9 times 8 (= 72) Subtract 72 from 79 (= 7) Bring down the 4</p> <p>Divide 8 into 74 (= 9) Multiply 9 times 8 (= 72) Subtract 72 from 74 (= 2) Done. No more numbers to bring down.</p>
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