

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)

$$46 \overline{) 38545}$$

(2)

$$32 \overline{) 48530}$$

(3)

$$20 \overline{) 88341}$$

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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} 837 \text{ R}43 \\ 46 \overline{) 38545} \\ \underline{- 368} \quad (8 \times 46) \\ 174 \\ \underline{- 138} \quad (3 \times 46) \\ 365 \\ \underline{- 322} \quad (7 \times 46) \\ \text{Remainder --> } 43 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 46 into 385 (= 8) Multiply 8 times 46 (= 368) Subtract 368 from 385 (= 17) Bring down the 4</p> <p>Divide 46 into 174 (= 3) Multiply 3 times 46 (= 138) Subtract 138 from 174 (= 36) Bring down the 5</p> <p>Divide 46 into 365 (= 7) Multiply 7 times 46 (= 322) Subtract 322 from 365 (= 43) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1516 \text{ R}18 \\ 32 \overline{) 48530} \\ \underline{- 32} \quad (1 \times 32) \\ 165 \\ \underline{- 160} \quad (5 \times 32) \\ 53 \\ \underline{- 32} \quad (1 \times 32) \\ 210 \\ \underline{- 192} \quad (6 \times 32) \\ \text{Remainder --> } 18 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 32 into 48 (= 1) Multiply 1 times 32 (= 32) Subtract 32 from 48 (= 16) Bring down the 5</p> <p>Divide 32 into 165 (= 5) Multiply 5 times 32 (= 160) Subtract 160 from 165 (= 5) Bring down the 3</p> <p>Divide 32 into 53 (= 1) Multiply 1 times 32 (= 32) Subtract 32 from 53 (= 21) Bring down the 0</p> <p>Divide 32 into 210 (= 6) Multiply 6 times 32 (= 192) Subtract 192 from 210 (= 18) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 4417 \text{ R}1 \\ 20 \overline{) 88341} \\ \underline{- 80} \quad (4 \times 20) \\ 83 \\ \underline{- 80} \quad (4 \times 20) \\ 34 \\ \underline{- 20} \quad (1 \times 20) \\ 141 \\ \underline{- 140} \quad (7 \times 20) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 20 into 88 (= 4) Multiply 4 times 20 (= 80) Subtract 80 from 88 (= 8) Bring down the 3</p> <p>Divide 20 into 83 (= 4) Multiply 4 times 20 (= 80) Subtract 80 from 83 (= 3) Bring down the 4</p> <p>Divide 20 into 34 (= 1) Multiply 1 times 20 (= 20) Subtract 20 from 34 (= 14) Bring down the 1</p> <p>Divide 20 into 141 (= 7) Multiply 7 times 20 (= 140) Subtract 140 from 141 (= 1) Done. No more numbers to bring down.</p>
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