

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)

$$385 \overline{) 3553128}$$

(2)

$$596 \overline{) 9812115}$$

(3)

$$219 \overline{) 8504540}$$

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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} 9228 \text{ R}348 \\ 385 \overline{) 3553128} \\ \underline{- 3465} \quad (9 \times 385) \\ 881 \\ \underline{- 770} \quad (2 \times 385) \\ 1112 \\ \underline{- 770} \quad (2 \times 385) \\ 3428 \\ \underline{- 3080} \quad (8 \times 385) \\ \text{Remainder -->} \quad 348 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 385 into 3553 (= 9) Multiply 9 times 385 (= 3465) Subtract 3465 from 3553 (= 88) Bring down the 1</p> <p>Divide 385 into 881 (= 2) Multiply 2 times 385 (= 770) Subtract 770 from 881 (= 111) Bring down the 2</p> <p>Divide 385 into 1112 (= 2) Multiply 2 times 385 (= 770) Subtract 770 from 1112 (= 342) Bring down the 8</p> <p>Divide 385 into 3428 (= 8) Multiply 8 times 385 (= 3080) Subtract 3080 from 3428 (= 348) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 16463 \text{ R}167 \\ 596 \overline{) 9812115} \\ \underline{- 596} \quad (1 \times 596) \\ 3852 \\ \underline{- 3576} \quad (6 \times 596) \\ 2761 \\ \underline{- 2384} \quad (4 \times 596) \\ 3771 \\ \underline{- 3576} \quad (6 \times 596) \\ 1955 \\ \underline{- 1788} \quad (3 \times 596) \\ \text{Remainder -->} \quad 167 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 596 into 981 (= 1) Multiply 1 times 596 (= 596) Subtract 596 from 981 (= 385) Bring down the 2</p> <p>Divide 596 into 3852 (= 6) Multiply 6 times 596 (= 3576) Subtract 3576 from 3852 (= 276) Bring down the 1</p> <p>Divide 596 into 2761 (= 4) Multiply 4 times 596 (= 2384) Subtract 2384 from 2761 (= 377) Bring down the 1</p> <p>Divide 596 into 3771 (= 6) Multiply 6 times 596 (= 3576) Subtract 3576 from 3771 (= 195) Bring down the 5</p> <p>Divide 596 into 1955 (= 3) Multiply 3 times 596 (= 1788) Subtract 1788 from 1955 (= 167) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 38833 \text{ R}113 \\ 219 \overline{) 8504540} \\ \underline{- 657} \quad (3 \times 219) \\ 1934 \\ \underline{- 1752} \quad (8 \times 219) \\ 1825 \\ \underline{- 1752} \quad (8 \times 219) \\ 734 \\ \underline{- 657} \quad (3 \times 219) \\ 770 \\ \underline{- 657} \quad (3 \times 219) \\ \text{Remainder -->} \quad 113 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 219 into 850 (= 3) Multiply 3 times 219 (= 657) Subtract 657 from 850 (= 193) Bring down the 4</p> <p>Divide 219 into 1934 (= 8) Multiply 8 times 219 (= 1752) Subtract 1752 from 1934 (= 182) Bring down the 5</p> <p>Divide 219 into 1825 (= 8) Multiply 8 times 219 (= 1752) Subtract 1752 from 1825 (= 73) Bring down the 4</p> <p>Divide 219 into 734 (= 3) Multiply 3 times 219 (= 657) Subtract 657 from 734 (= 77) Bring down the 0</p> <p>Divide 219 into 770 (= 3) Multiply 3 times 219 (= 657) Subtract 657 from 770 (= 113) Done. No more numbers to bring down.</p>
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