

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)

$$956 \overline{) 188642}$$

(2)

$$633 \overline{) 258122}$$

(3)

$$264 \overline{) 735700}$$

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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} 197 \text{ R}310 \\ 956 \overline{) 188642} \\ \underline{- 956} \quad (1 \times 956) \\ 9304 \\ \underline{- 8604} \quad (9 \times 956) \\ 7002 \\ \underline{- 6692} \quad (7 \times 956) \\ \text{Remainder --> } 310 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 956 into 1886 (= 1) Multiply 1 times 956 (= 956) Subtract 956 from 1886 (= 930) Bring down the 4</p> <p>Divide 956 into 9304 (= 9) Multiply 9 times 956 (= 8604) Subtract 8604 from 9304 (= 700) Bring down the 2</p> <p>Divide 956 into 7002 (= 7) Multiply 7 times 956 (= 6692) Subtract 6692 from 7002 (= 310) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 407 \text{ R}491 \\ 633 \overline{) 258122} \\ \underline{- 2532} \quad (4 \times 633) \\ 492 \\ \underline{- 0} \quad (0 \times 633) \\ 4922 \\ \underline{- 4431} \quad (7 \times 633) \\ \text{Remainder --> } 491 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 633 into 2581 (= 4) Multiply 4 times 633 (= 2532) Subtract 2532 from 2581 (= 49) Bring down the 2</p> <p>Divide 633 into 492 (= 0) Multiply 0 times 633 (= 0) Subtract 0 from 492 (= 492) Bring down the 2</p> <p>Divide 633 into 4922 (= 7) Multiply 7 times 633 (= 4431) Subtract 4431 from 4922 (= 491) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 2786 \text{ R}196 \\ 264 \overline{) 735700} \\ \underline{- 528} \quad (2 \times 264) \\ 2077 \\ \underline{- 1848} \quad (7 \times 264) \\ 2290 \\ \underline{- 2112} \quad (8 \times 264) \\ 1780 \\ \underline{- 1584} \quad (6 \times 264) \\ \text{Remainder --> } 196 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 264 into 735 (= 2) Multiply 2 times 264 (= 528) Subtract 528 from 735 (= 207) Bring down the 7</p> <p>Divide 264 into 2077 (= 7) Multiply 7 times 264 (= 1848) Subtract 1848 from 2077 (= 229) Bring down the 0</p> <p>Divide 264 into 2290 (= 8) Multiply 8 times 264 (= 2112) Subtract 2112 from 2290 (= 178) Bring down the 0</p> <p>Divide 264 into 1780 (= 6) Multiply 6 times 264 (= 1584) Subtract 1584 from 1780 (= 196) Done. No more numbers to bring down.</p> |
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