

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)

$$643 \overline{) 94008}$$

(2)

$$169 \overline{) 27340}$$

(3)

$$653 \overline{) 60837}$$

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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} 146 \text{ R}130 \\ 643 \overline{) 94008} \\ \underline{- 643} \quad (1 \times 643) \\ 2970 \\ \underline{- 2572} \quad (4 \times 643) \\ 3988 \\ \underline{- 3858} \quad (6 \times 643) \\ \text{Remainder --> } 130 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 643 into 940 (= 1) Multiply 1 times 643 (= 643) Subtract 643 from 940 (= 297) Bring down the 0</p> <p>Divide 643 into 2970 (= 4) Multiply 4 times 643 (= 2572) Subtract 2572 from 2970 (= 398) Bring down the 8</p> <p>Divide 643 into 3988 (= 6) Multiply 6 times 643 (= 3858) Subtract 3858 from 3988 (= 130) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 161 \text{ R}131 \\ 169 \overline{) 27340} \\ \underline{- 169} \quad (1 \times 169) \\ 1044 \\ \underline{- 1014} \quad (6 \times 169) \\ 300 \\ \underline{- 169} \quad (1 \times 169) \\ \text{Remainder --> } 131 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 169 into 273 (= 1) Multiply 1 times 169 (= 169) Subtract 169 from 273 (= 104) Bring down the 4</p> <p>Divide 169 into 1044 (= 6) Multiply 6 times 169 (= 1014) Subtract 1014 from 1044 (= 30) Bring down the 0</p> <p>Divide 169 into 300 (= 1) Multiply 1 times 169 (= 169) Subtract 169 from 300 (= 131) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 93 \text{ R}108 \\ 653 \overline{) 60837} \\ \underline{- 5877} \quad (9 \times 653) \\ 2067 \\ \underline{- 1959} \quad (3 \times 653) \\ \text{Remainder --> } 108 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 653 into 6083 (= 9) Multiply 9 times 653 (= 5877) Subtract 5877 from 6083 (= 206) Bring down the 7</p> <p>Divide 653 into 2067 (= 3) Multiply 3 times 653 (= 1959) Subtract 1959 from 2067 (= 108) Done. No more numbers to bring down.</p>
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