

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)

$$62 \overline{) 29764}$$

(2)

$$17 \overline{) 31560}$$

(3)

$$88 \overline{) 82874}$$

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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} 480 \text{ R}4 \\ 62 \overline{) 29764} \\ \underline{- 248} \quad (4 \times 62) \\ 496 \\ \underline{- 496} \quad (8 \times 62) \\ 04 \\ \underline{- 0} \quad (0 \times 62) \\ \text{Remainder -->} \quad 4 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 62 into 297 (= 4) Multiply 4 times 62 (= 248) Subtract 248 from 297 (= 49) Bring down the 6</p> <p>Divide 62 into 496 (= 8) Multiply 8 times 62 (= 496) Subtract 496 from 496 (= 0) Bring down the 4</p> <p>Divide 62 into 04 (= 0) Multiply 0 times 62 (= 0) Subtract 0 from 04 (= 4) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1856 \text{ R}8 \\ 17 \overline{) 31560} \\ \underline{- 17} \quad (1 \times 17) \\ 145 \\ \underline{- 136} \quad (8 \times 17) \\ 96 \\ \underline{- 85} \quad (5 \times 17) \\ 110 \\ \underline{- 102} \quad (6 \times 17) \\ \text{Remainder -->} \quad 8 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 17 into 31 (= 1) Multiply 1 times 17 (= 17) Subtract 17 from 31 (= 14) Bring down the 5</p> <p>Divide 17 into 145 (= 8) Multiply 8 times 17 (= 136) Subtract 136 from 145 (= 9) Bring down the 6</p> <p>Divide 17 into 96 (= 5) Multiply 5 times 17 (= 85) Subtract 85 from 96 (= 11) Bring down the 0</p> <p>Divide 17 into 110 (= 6) Multiply 6 times 17 (= 102) Subtract 102 from 110 (= 8) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 941 \text{ R}66 \\ 88 \overline{) 82874} \\ \underline{- 792} \quad (9 \times 88) \\ 367 \\ \underline{- 352} \quad (4 \times 88) \\ 154 \\ \underline{- 88} \quad (1 \times 88) \\ \text{Remainder -->} \quad 66 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 88 into 828 (= 9) Multiply 9 times 88 (= 792) Subtract 792 from 828 (= 36) Bring down the 7</p> <p>Divide 88 into 367 (= 4) Multiply 4 times 88 (= 352) Subtract 352 from 367 (= 15) Bring down the 4</p> <p>Divide 88 into 154 (= 1) Multiply 1 times 88 (= 88) Subtract 88 from 154 (= 66) Done. No more numbers to bring down.</p>
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