

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)

$$44 \overline{) 29541}$$

(2)

$$84 \overline{) 96978}$$

(3)

$$30 \overline{) 23758}$$

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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} 671 \text{ R}17 \\ 44 \overline{) 29541} \\ \underline{- 264} \quad (6 \times 44) \\ 314 \\ \underline{- 308} \quad (7 \times 44) \\ 61 \\ \underline{- 44} \quad (1 \times 44) \\ \text{Remainder --> } 17 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 44 into 295 (= 6) Multiply 6 times 44 (= 264) Subtract 264 from 295 (= 31) Bring down the 4</p> <p>Divide 44 into 314 (= 7) Multiply 7 times 44 (= 308) Subtract 308 from 314 (= 6) Bring down the 1</p> <p>Divide 44 into 61 (= 1) Multiply 1 times 44 (= 44) Subtract 44 from 61 (= 17) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1154 \text{ R}42 \\ 84 \overline{) 96978} \\ \underline{- 84} \quad (1 \times 84) \\ 129 \\ \underline{- 84} \quad (1 \times 84) \\ 457 \\ \underline{- 420} \quad (5 \times 84) \\ 378 \\ \underline{- 336} \quad (4 \times 84) \\ \text{Remainder --> } 42 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 84 into 96 (= 1) Multiply 1 times 84 (= 84) Subtract 84 from 96 (= 12) Bring down the 9</p> <p>Divide 84 into 129 (= 1) Multiply 1 times 84 (= 84) Subtract 84 from 129 (= 45) Bring down the 7</p> <p>Divide 84 into 457 (= 5) Multiply 5 times 84 (= 420) Subtract 420 from 457 (= 37) Bring down the 8</p> <p>Divide 84 into 378 (= 4) Multiply 4 times 84 (= 336) Subtract 336 from 378 (= 42) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 791 \text{ R}28 \\ 30 \overline{) 23758} \\ \underline{- 210} \quad (7 \times 30) \\ 275 \\ \underline{- 270} \quad (9 \times 30) \\ 58 \\ \underline{- 30} \quad (1 \times 30) \\ \text{Remainder --> } 28 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 30 into 237 (= 7) Multiply 7 times 30 (= 210) Subtract 210 from 237 (= 27) Bring down the 5</p> <p>Divide 30 into 275 (= 9) Multiply 9 times 30 (= 270) Subtract 270 from 275 (= 5) Bring down the 8</p> <p>Divide 30 into 58 (= 1) Multiply 1 times 30 (= 30) Subtract 30 from 58 (= 28) Done. No more numbers to bring down.</p>
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