

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)

$$873 \overline{) 195827}$$

(2)

$$459 \overline{) 619214}$$

(3)

$$541 \overline{) 105366}$$

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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} 224 \text{ R}275 \\ 873 \overline{) 195827} \\ \underline{- 1746} \quad (2 \times 873) \\ 2122 \\ \underline{- 1746} \quad (2 \times 873) \\ 3767 \\ \underline{- 3492} \quad (4 \times 873) \\ \text{Remainder --> } 275 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 873 into 1958 (= 2) Multiply 2 times 873 (= 1746) Subtract 1746 from 1958 (= 212) Bring down the 2</p> <p>Divide 873 into 2122 (= 2) Multiply 2 times 873 (= 1746) Subtract 1746 from 2122 (= 376) Bring down the 7</p> <p>Divide 873 into 3767 (= 4) Multiply 4 times 873 (= 3492) Subtract 3492 from 3767 (= 275) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1349 \text{ R}23 \\ 459 \overline{) 619214} \\ \underline{- 459} \quad (1 \times 459) \\ 1602 \\ \underline{- 1377} \quad (3 \times 459) \\ 2251 \\ \underline{- 1836} \quad (4 \times 459) \\ 4154 \\ \underline{- 4131} \quad (9 \times 459) \\ \text{Remainder --> } 23 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 459 into 619 (= 1) Multiply 1 times 459 (= 459) Subtract 459 from 619 (= 160) Bring down the 2</p> <p>Divide 459 into 1602 (= 3) Multiply 3 times 459 (= 1377) Subtract 1377 from 1602 (= 225) Bring down the 1</p> <p>Divide 459 into 2251 (= 4) Multiply 4 times 459 (= 1836) Subtract 1836 from 2251 (= 415) Bring down the 4</p> <p>Divide 459 into 4154 (= 9) Multiply 9 times 459 (= 4131) Subtract 4131 from 4154 (= 23) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 194 \text{ R}412 \\ 541 \overline{) 105366} \\ \underline{- 541} \quad (1 \times 541) \\ 5126 \\ \underline{- 4869} \quad (9 \times 541) \\ 2576 \\ \underline{- 2164} \quad (4 \times 541) \\ \text{Remainder --> } 412 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 541 into 1053 (= 1) Multiply 1 times 541 (= 541) Subtract 541 from 1053 (= 512) Bring down the 6</p> <p>Divide 541 into 5126 (= 9) Multiply 9 times 541 (= 4869) Subtract 4869 from 5126 (= 257) Bring down the 6</p> <p>Divide 541 into 2576 (= 4) Multiply 4 times 541 (= 2164) Subtract 2164 from 2576 (= 412) Done. No more numbers to bring down.</p>
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