

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)

$$9 \overline{)206794}$$

(2)

$$4 \overline{)201377}$$

(3)

$$2 \overline{)126163}$$

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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} 22977 \text{ R1} \\ 9 \overline{)206794} \\ -18 \\ \hline 26 \\ -18 \\ \hline 87 \\ -81 \\ \hline 69 \\ -63 \\ \hline 64 \\ -63 \\ \hline \text{Remainder -->} \quad 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 20 (= 2) Multiply 2 times 9 (= 18) Subtract 18 from 20 (= 2) Bring down the 6</p> <p>Divide 9 into 26 (= 2) Multiply 2 times 9 (= 18) Subtract 18 from 26 (= 8) Bring down the 7</p> <p>Divide 9 into 87 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 87 (= 6) Bring down the 9</p> <p>Divide 9 into 69 (= 7) Multiply 7 times 9 (= 63) Subtract 63 from 69 (= 6) Bring down the 4</p> <p>Divide 9 into 64 (= 7) Multiply 7 times 9 (= 63) Subtract 63 from 64 (= 1) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 50344 \text{ R1} \\ 4 \overline{)201377} \\ -20 \\ \hline 01 \\ -0 \\ \hline 13 \\ -12 \\ \hline 17 \\ -16 \\ \hline 17 \\ -16 \\ \hline 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 20 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 20 (= 0) Bring down the 1</p> <p>Divide 4 into 01 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 01 (= 1) Bring down the 3</p> <p>Divide 4 into 13 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 13 (= 1) Bring down the 7</p> <p>Divide 4 into 17 (= 4) Multiply 4 times 4 (= 16) Subtract 16 from 17 (= 1) Bring down the 7</p> <p>Divide 4 into 17 (= 4) Multiply 4 times 4 (= 16) Subtract 16 from 17 (= 1) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 63081 \text{ R1} \\ 2 \overline{)126163} \\ -12 \\ \hline 06 \\ -6 \\ \hline 01 \\ -0 \\ \hline 16 \\ -16 \\ \hline 03 \\ -2 \\ \hline 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 12 (= 6) Multiply 6 times 2 (= 12) Subtract 12 from 12 (= 0) Bring down the 6</p> <p>Divide 2 into 06 (= 3) Multiply 3 times 2 (= 6) Subtract 6 from 06 (= 0) Bring down the 1</p> <p>Divide 2 into 01 (= 0) Multiply 0 times 2 (= 0) Subtract 0 from 01 (= 1) Bring down the 6</p> <p>Divide 2 into 16 (= 8) Multiply 8 times 2 (= 16) Subtract 16 from 16 (= 0) Bring down the 3</p> <p>Divide 2 into 03 (= 1) Multiply 1 times 2 (= 2) Subtract 2 from 03 (= 1) Done. No more numbers to bring down.</p>
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