

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)

$$8 \overline{)40597}$$

(2)

$$6 \overline{)69128}$$

(3)

$$3 \overline{)86029}$$

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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} 5074 \text{ R5} \\ 8 \overline{)40597} \\ -40 \\ \hline 05 \\ -0 \\ \hline 59 \\ -56 \\ \hline 37 \\ -32 \\ \hline \text{Remainder --> } 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 40 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 40 (= 0) Bring down the 5</p> <p>Divide 8 into 05 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 05 (= 5) Bring down the 9</p> <p>Divide 8 into 59 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 59 (= 3) Bring down the 7</p> <p>Divide 8 into 37 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 37 (= 5) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 11521 \text{ R2} \\ 6 \overline{)69128} \\ -6 \\ \hline 09 \\ -6 \\ \hline 31 \\ -30 \\ \hline 12 \\ -12 \\ \hline 08 \\ -6 \\ \hline 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 6 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 6 (= 0) Bring down the 9</p> <p>Divide 6 into 09 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 09 (= 3) Bring down the 1</p> <p>Divide 6 into 31 (= 5) Multiply 5 times 6 (= 30) Subtract 30 from 31 (= 1) Bring down the 2</p> <p>Divide 6 into 12 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 12 (= 0) Bring down the 8</p> <p>Divide 6 into 08 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 08 (= 2) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 28676 \text{ R1} \\ 3 \overline{)86029} \\ -6 \\ \hline 26 \\ -24 \\ \hline 20 \\ -18 \\ \hline 22 \\ -21 \\ \hline 19 \\ -18 \\ \hline 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 8 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 8 (= 2) Bring down the 6</p> <p>Divide 3 into 26 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 26 (= 2) Bring down the 0</p> <p>Divide 3 into 20 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 20 (= 2) Bring down the 2</p> <p>Divide 3 into 22 (= 7) Multiply 7 times 3 (= 21) Subtract 21 from 22 (= 1) Bring down the 9</p> <p>Divide 3 into 19 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 19 (= 1) Done. No more numbers to bring down.</p>
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