

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)

$$6 \overline{)5673}$$

(2)

$$3 \overline{)1518}$$

(3)

$$3 \overline{)9024}$$

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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} 945 \text{ R}3 \\ 6 \overline{)5673} \\ - 54 \\ \hline 27 \\ - 24 \\ \hline 33 \\ - 30 \\ \hline \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 56 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 56 (= 2) Bring down the 7</p> <p>Divide 6 into 27 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 27 (= 3) Bring down the 3</p> <p>Divide 6 into 33 (= 5) Multiply 5 times 6 (= 30) Subtract 30 from 33 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 506 \text{ R}0 \\ 3 \overline{)1518} \\ - 15 \\ \hline 01 \\ - 0 \\ \hline 18 \\ - 18 \\ \hline 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 15 (= 5) Multiply 5 times 3 (= 15) Subtract 15 from 15 (= 0) Bring down the 1</p> <p>Divide 3 into 01 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 01 (= 1) Bring down the 8</p> <p>Divide 3 into 18 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 18 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 3008 \text{ R}0 \\ 3 \overline{)9024} \\ - 9 \\ \hline 00 \\ - 0 \\ \hline 02 \\ - 0 \\ \hline 24 \\ - 24 \\ \hline 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 9 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 9 (= 0) Bring down the 0</p> <p>Divide 3 into 00 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 00 (= 0) Bring down the 2</p> <p>Divide 3 into 02 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 02 (= 2) Bring down the 4</p> <p>Divide 3 into 24 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 24 (= 0) Done. No more numbers to bring down.</p>
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