

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)

$$6 \overline{)5245}$$

(2)

$$5 \overline{)4730}$$

(3)

$$9 \overline{)8189}$$

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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} 874 \text{ R}1 \\ 6 \overline{) 5245} \\ \underline{- 48} \qquad (8 \times 6) \\ 44 \\ \underline{- 42} \qquad (7 \times 6) \\ 25 \\ \underline{- 24} \qquad (4 \times 6) \\ \hline \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 52 (= 8) Multiply 8 times 6 (= 48) Subtract 48 from 52 (= 4) Bring down the 4</p> <p>Divide 6 into 44 (= 7) Multiply 7 times 6 (= 42) Subtract 42 from 44 (= 2) Bring down the 5</p> <p>Divide 6 into 25 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 25 (= 1) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 946 \text{ R}0 \\ 5 \overline{) 4730} \\ \underline{- 45} \qquad (9 \times 5) \\ 23 \\ \underline{- 20} \qquad (4 \times 5) \\ 30 \\ \underline{- 30} \qquad (6 \times 5) \\ \hline \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 47 (= 9) Multiply 9 times 5 (= 45) Subtract 45 from 47 (= 2) Bring down the 3</p> <p>Divide 5 into 23 (= 4) Multiply 4 times 5 (= 20) Subtract 20 from 23 (= 3) Bring down the 0</p> <p>Divide 5 into 30 (= 6) Multiply 6 times 5 (= 30) Subtract 30 from 30 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 909 \text{ R}8 \\ 9 \overline{) 8189} \\ \underline{- 81} \qquad (9 \times 9) \\ 08 \\ \underline{- 0} \qquad (0 \times 9) \\ 89 \\ \underline{- 81} \qquad (9 \times 9) \\ \hline \text{Remainder --> } 8 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 81 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 81 (= 0) Bring down the 8</p> <p>Divide 9 into 08 (= 0) Multiply 0 times 9 (= 0) Subtract 0 from 08 (= 8) Bring down the 9</p> <p>Divide 9 into 89 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 89 (= 8) Done. No more numbers to bring down.</p>
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