

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)

$$4 \overline{)7009}$$

(2)

$$4 \overline{)2374}$$

(3)

$$9 \overline{)7305}$$

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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} 1752 \text{ R1} \\ 4 \overline{) 7009} \\ \underline{- 4} \qquad (1 \times 4) \\ 30 \\ \underline{- 28} \qquad (7 \times 4) \\ 20 \\ \underline{- 20} \qquad (5 \times 4) \\ 09 \\ \underline{- 8} \qquad (2 \times 4) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 7 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 7 (= 3) Bring down the 0</p> <p>Divide 4 into 30 (= 7) Multiply 7 times 4 (= 28) Subtract 28 from 30 (= 2) Bring down the 0</p> <p>Divide 4 into 20 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 20 (= 0) Bring down the 9</p> <p>Divide 4 into 09 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 09 (= 1) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 593 \text{ R2} \\ 4 \overline{) 2374} \\ \underline{- 20} \qquad (5 \times 4) \\ 37 \\ \underline{- 36} \qquad (9 \times 4) \\ 14 \\ \underline{- 12} \qquad (3 \times 4) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 23 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 23 (= 3) Bring down the 7</p> <p>Divide 4 into 37 (= 9) Multiply 9 times 4 (= 36) Subtract 36 from 37 (= 1) Bring down the 4</p> <p>Divide 4 into 14 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 14 (= 2) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 811 \text{ R6} \\ 9 \overline{) 7305} \\ \underline{- 72} \qquad (8 \times 9) \\ 10 \\ \underline{- 9} \qquad (1 \times 9) \\ 15 \\ \underline{- 9} \qquad (1 \times 9) \\ \text{Remainder --> } 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 73 (= 8) Multiply 8 times 9 (= 72) Subtract 72 from 73 (= 1) Bring down the 0</p> <p>Divide 9 into 10 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 10 (= 1) Bring down the 5</p> <p>Divide 9 into 15 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 15 (= 6) Done. No more numbers to bring down.</p>
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