

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)

$$24 \overline{) 77796}$$

(2)

$$73 \overline{) 76656}$$

(3)

$$42 \overline{) 59471}$$

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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} 3241 \text{ R}12 \\ 24 \overline{) 77796} \\ \underline{- 72} \qquad (3 \times 24) \\ 57 \\ \underline{- 48} \qquad (2 \times 24) \\ 99 \\ \underline{- 96} \qquad (4 \times 24) \\ 36 \\ \underline{- 24} \qquad (1 \times 24) \\ 12 \end{array} $ <p>Remainder --> 12</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 24 into 77 (= 3) Multiply 3 times 24 (= 72) Subtract 72 from 77 (= 5) Bring down the 7</p> <p>Divide 24 into 57 (= 2) Multiply 2 times 24 (= 48) Subtract 48 from 57 (= 9) Bring down the 9</p> <p>Divide 24 into 99 (= 4) Multiply 4 times 24 (= 96) Subtract 96 from 99 (= 3) Bring down the 6</p> <p>Divide 24 into 36 (= 1) Multiply 1 times 24 (= 24) Subtract 24 from 36 (= 12) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1050 \text{ R}6 \\ 73 \overline{) 76656} \\ \underline{- 73} \qquad (1 \times 73) \\ 36 \\ \underline{- 0} \qquad (0 \times 73) \\ 365 \\ \underline{- 365} \qquad (5 \times 73) \\ 06 \\ \underline{- 0} \qquad (0 \times 73) \\ 6 \end{array} $ <p>Remainder --> 6</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 73 into 76 (= 1) Multiply 1 times 73 (= 73) Subtract 73 from 76 (= 3) Bring down the 6</p> <p>Divide 73 into 36 (= 0) Multiply 0 times 73 (= 0) Subtract 0 from 36 (= 36) Bring down the 5</p> <p>Divide 73 into 365 (= 5) Multiply 5 times 73 (= 365) Subtract 365 from 365 (= 0) Bring down the 6</p> <p>Divide 73 into 06 (= 0) Multiply 0 times 73 (= 0) Subtract 0 from 06 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1415 \text{ R}41 \\ 42 \overline{) 59471} \\ \underline{- 42} \qquad (1 \times 42) \\ 174 \\ \underline{- 168} \qquad (4 \times 42) \\ 67 \\ \underline{- 42} \qquad (1 \times 42) \\ 251 \\ \underline{- 210} \qquad (5 \times 42) \\ 41 \end{array} $ <p>Remainder --> 41</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 42 into 59 (= 1) Multiply 1 times 42 (= 42) Subtract 42 from 59 (= 17) Bring down the 4</p> <p>Divide 42 into 174 (= 4) Multiply 4 times 42 (= 168) Subtract 168 from 174 (= 6) Bring down the 7</p> <p>Divide 42 into 67 (= 1) Multiply 1 times 42 (= 42) Subtract 42 from 67 (= 25) Bring down the 1</p> <p>Divide 42 into 251 (= 5) Multiply 5 times 42 (= 210) Subtract 210 from 251 (= 41) Done. No more numbers to bring down.</p>
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