

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)

$$6 \overline{) 8571}$$

(2)

$$3 \overline{) 3863}$$

(3)

$$8 \overline{) 7402}$$

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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

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| <p>(1)</p> $ \begin{array}{r} 1428 \text{ R}3 \\ 6 \overline{) 8571} \\ \underline{- 6} \qquad (1 \times 6) \\ 25 \\ \underline{- 24} \qquad (4 \times 6) \\ 17 \\ \underline{- 12} \qquad (2 \times 6) \\ 51 \\ \underline{- 48} \qquad (8 \times 6) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 8 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 8 (= 2) Bring down the 5</p> <p>Divide 6 into 25 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 25 (= 1) Bring down the 7</p> <p>Divide 6 into 17 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 17 (= 5) Bring down the 1</p> <p>Divide 6 into 51 (= 8) Multiply 8 times 6 (= 48) Subtract 48 from 51 (= 3) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 1287 \text{ R}2 \\ 3 \overline{) 3863} \\ \underline{- 3} \qquad (1 \times 3) \\ 08 \\ \underline{- 6} \qquad (2 \times 3) \\ 26 \\ \underline{- 24} \qquad (8 \times 3) \\ 23 \\ \underline{- 21} \qquad (7 \times 3) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 3 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 3 (= 0) Bring down the 8</p> <p>Divide 3 into 08 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 08 (= 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 3</p> <p>Divide 3 into 23 (= 7) Multiply 7 times 3 (= 21) Subtract 21 from 23 (= 2) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 925 \text{ R}2 \\ 8 \overline{) 7402} \\ \underline{- 72} \qquad (9 \times 8) \\ 20 \\ \underline{- 16} \qquad (2 \times 8) \\ 42 \\ \underline{- 40} \qquad (5 \times 8) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 74 (= 9) Multiply 9 times 8 (= 72) Subtract 72 from 74 (= 2) Bring down the 0</p> <p>Divide 8 into 20 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 20 (= 4) Bring down the 2</p> <p>Divide 8 into 42 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 42 (= 2) Done. No more numbers to bring down.</p> |
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