

# 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)

$$8 \overline{) 32477}$$

(2)

$$2 \overline{) 30506}$$

(3)

$$9 \overline{) 42643}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

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

<p>(1)</p> $  \begin{array}{r}  4059 \text{ R}5 \\  8 \overline{) 32477} \\  \underline{- 32} \qquad (4 \times 8) \\  04 \\  \underline{- 0} \qquad (0 \times 8) \\  47 \\  \underline{- 40} \qquad (5 \times 8) \\  77 \\  \underline{- 72} \qquad (9 \times 8) \\  \text{Remainder --> } 5  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 32 (= 4)            Multiply 4 times 8 (= 32)            Subtract 32 from 32 (= 0)            Bring down the 4</p> <p>Divide 8 into 04 (= 0)            Multiply 0 times 8 (= 0)            Subtract 0 from 04 (= 4)            Bring down the 7</p> <p>Divide 8 into 47 (= 5)            Multiply 5 times 8 (= 40)            Subtract 40 from 47 (= 7)            Bring down the 7</p> <p>Divide 8 into 77 (= 9)            Multiply 9 times 8 (= 72)            Subtract 72 from 77 (= 5)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  15253 \text{ R}0 \\  2 \overline{) 30506} \\  \underline{- 2} \qquad (1 \times 2) \\  10 \\  \underline{- 10} \qquad (5 \times 2) \\  05 \\  \underline{- 4} \qquad (2 \times 2) \\  10 \\  \underline{- 10} \qquad (5 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 3 (= 1)            Multiply 1 times 2 (= 2)            Subtract 2 from 3 (= 1)            Bring down the 0</p> <p>Divide 2 into 10 (= 5)            Multiply 5 times 2 (= 10)            Subtract 10 from 10 (= 0)            Bring down the 5</p> <p>Divide 2 into 05 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 05 (= 1)            Bring down the 0</p> <p>Divide 2 into 10 (= 5)            Multiply 5 times 2 (= 10)            Subtract 10 from 10 (= 0)            Bring down the 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  4738 \text{ R}1 \\  9 \overline{) 42643} \\  \underline{- 36} \qquad (4 \times 9) \\  66 \\  \underline{- 63} \qquad (7 \times 9) \\  34 \\  \underline{- 27} \qquad (3 \times 9) \\  73 \\  \underline{- 72} \qquad (8 \times 9) \\  \text{Remainder --> } 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 42 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 42 (= 6)            Bring down the 6</p> <p>Divide 9 into 66 (= 7)            Multiply 7 times 9 (= 63)            Subtract 63 from 66 (= 3)            Bring down the 4</p> <p>Divide 9 into 34 (= 3)            Multiply 3 times 9 (= 27)            Subtract 27 from 34 (= 7)            Bring down the 3</p> <p>Divide 9 into 73 (= 8)            Multiply 8 times 9 (= 72)            Subtract 72 from 73 (= 1)            Done. No more numbers to bring down.</p>
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