

# 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)

$$6 \overline{)936408}$$

(2)

$$8 \overline{)882218}$$

(3)

$$3 \overline{)900865}$$

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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}  156068 \text{ R}0 \\  6 \overline{) 936408} \\  \underline{- 6} \qquad (1 \times 6) \\  33 \\  \underline{- 30} \qquad (5 \times 6) \\  36 \\  \underline{- 36} \qquad (6 \times 6) \\  04 \\  \underline{- 0} \qquad (0 \times 6) \\  40 \\  \underline{- 36} \qquad (6 \times 6) \\  48 \\  \underline{- 48} \qquad (8 \times 6) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 9 (= 1)            Multiply 1 times 6 (= 6)            Subtract 6 from 9 (= 3)            Bring down the 3</p> <p>Divide 6 into 33 (= 5)            Multiply 5 times 6 (= 30)            Subtract 30 from 33 (= 3)            Bring down the 6</p> <p>Divide 6 into 36 (= 6)            Multiply 6 times 6 (= 36)            Subtract 36 from 36 (= 0)            Bring down the 4</p> <p>Divide 6 into 04 (= 0)            Multiply 0 times 6 (= 0)            Subtract 0 from 04 (= 4)            Bring down the 0</p> <p>Divide 6 into 40 (= 6)            Multiply 6 times 6 (= 36)            Subtract 36 from 40 (= 4)            Bring down the 8</p> <p>Divide 6 into 48 (= 8)            Multiply 8 times 6 (= 48)            Subtract 48 from 48 (= 0)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  110277 \text{ R}2 \\  8 \overline{) 882218} \\  \underline{- 8} \qquad (1 \times 8) \\  08 \\  \underline{- 8} \qquad (1 \times 8) \\  02 \\  \underline{- 0} \qquad (0 \times 8) \\  22 \\  \underline{- 16} \qquad (2 \times 8) \\  61 \\  \underline{- 56} \qquad (7 \times 8) \\  58 \\  \underline{- 56} \qquad (7 \times 8) \\  \text{Remainder --> } 2  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 8 (= 1)            Multiply 1 times 8 (= 8)            Subtract 8 from 8 (= 0)            Bring down the 8</p> <p>Divide 8 into 08 (= 1)            Multiply 1 times 8 (= 8)            Subtract 8 from 08 (= 0)            Bring down the 2</p> <p>Divide 8 into 02 (= 0)            Multiply 0 times 8 (= 0)            Subtract 0 from 02 (= 2)            Bring down the 2</p> <p>Divide 8 into 22 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 22 (= 6)            Bring down the 1</p> <p>Divide 8 into 61 (= 7)            Multiply 7 times 8 (= 56)            Subtract 56 from 61 (= 5)            Bring down the 8</p> <p>Divide 8 into 58 (= 7)            Multiply 7 times 8 (= 56)            Subtract 56 from 58 (= 2)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  300288 \text{ R}1 \\  3 \overline{) 900865} \\  \underline{- 9} \qquad (3 \times 3) \\  00 \\  \underline{- 0} \qquad (0 \times 3) \\  00 \\  \underline{- 0} \qquad (0 \times 3) \\  08 \\  \underline{- 6} \qquad (2 \times 3) \\  26 \\  \underline{- 24} \qquad (8 \times 3) \\  25 \\  \underline{- 24} \qquad (8 \times 3) \\  \text{Remainder --> } 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 9 (= 3)            Multiply 3 times 3 (= 9)            Subtract 9 from 9 (= 0)            Bring down the 0</p> <p>Divide 3 into 00 (= 0)            Multiply 0 times 3 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 0</p> <p>Divide 3 into 00 (= 0)            Multiply 0 times 3 (= 0)            Subtract 0 from 00 (= 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 5</p> <p>Divide 3 into 25 (= 8)            Multiply 8 times 3 (= 24)            Subtract 24 from 25 (= 1)            Done. No more numbers to bring down.</p>
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