

# 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)

$$2 \overline{) 8772468}$$

(2)

$$7 \overline{) 6429625}$$

(3)

$$2 \overline{) 3560076}$$

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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}  4386234 \text{ R}0 \\  2 \overline{) 8772468} \\  \underline{- 8} \qquad (4 \times 2) \\  07 \\  \underline{- 6} \qquad (3 \times 2) \\  17 \\  \underline{- 16} \qquad (8 \times 2) \\  12 \\  \underline{- 12} \qquad (6 \times 2) \\  04 \\  \underline{- 4} \qquad (2 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  08 \\  \underline{- 8} \qquad (4 \times 2) \\  \text{Remainder -->} \quad 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 8 (= 4)            Multiply 4 times 2 (= 8)            Subtract 8 from 8 (= 0)            Bring down the 7</p> <p>Divide 2 into 07 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 07 (= 1)            Bring down the 7</p> <p>Divide 2 into 17 (= 8)            Multiply 8 times 2 (= 16)            Subtract 16 from 17 (= 1)            Bring down the 2</p> <p>Divide 2 into 12 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 12 (= 0)            Bring down the 4</p> <p>Divide 2 into 04 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 04 (= 0)            Bring down the 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 0)            Bring down the 8</p> <p>Divide 2 into 08 (= 4)            Multiply 4 times 2 (= 8)            Subtract 8 from 08 (= 0)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  918517 \text{ R}6 \\  7 \overline{) 6429625} \\  \underline{- 63} \qquad (9 \times 7) \\  12 \\  \underline{- 7} \qquad (1 \times 7) \\  59 \\  \underline{- 56} \qquad (8 \times 7) \\  36 \\  \underline{- 35} \qquad (5 \times 7) \\  12 \\  \underline{- 7} \qquad (1 \times 7) \\  55 \\  \underline{- 49} \qquad (7 \times 7) \\  \text{Remainder -->} \quad 6  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 64 (= 9)            Multiply 9 times 7 (= 63)            Subtract 63 from 64 (= 1)            Bring down the 2</p> <p>Divide 7 into 12 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 12 (= 5)            Bring down the 9</p> <p>Divide 7 into 59 (= 8)            Multiply 8 times 7 (= 56)            Subtract 56 from 59 (= 3)            Bring down the 6</p> <p>Divide 7 into 36 (= 5)            Multiply 5 times 7 (= 35)            Subtract 35 from 36 (= 1)            Bring down the 2</p> <p>Divide 7 into 12 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 12 (= 5)            Bring down the 5</p> <p>Divide 7 into 55 (= 7)            Multiply 7 times 7 (= 49)            Subtract 49 from 55 (= 6)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  1780038 \text{ R}0 \\  2 \overline{) 3560076} \\  \underline{- 2} \qquad (1 \times 2) \\  15 \\  \underline{- 14} \qquad (7 \times 2) \\  16 \\  \underline{- 16} \qquad (8 \times 2) \\  00 \\  \underline{- 0} \qquad (0 \times 2) \\  00 \\  \underline{- 0} \qquad (0 \times 2) \\  07 \\  \underline{- 6} \qquad (3 \times 2) \\  16 \\  \underline{- 16} \qquad (8 \times 2) \\  \text{Remainder -->} \quad 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 5</p> <p>Divide 2 into 15 (= 7)            Multiply 7 times 2 (= 14)            Subtract 14 from 15 (= 1)            Bring down the 6</p> <p>Divide 2 into 16 (= 8)            Multiply 8 times 2 (= 16)            Subtract 16 from 16 (= 0)            Bring down the 0</p> <p>Divide 2 into 00 (= 0)            Multiply 0 times 2 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 0</p> <p>Divide 2 into 00 (= 0)            Multiply 0 times 2 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 7</p> <p>Divide 2 into 07 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 07 (= 1)            Bring down the 6</p> <p>Divide 2 into 16 (= 8)            Multiply 8 times 2 (= 16)            Subtract 16 from 16 (= 0)            Done. No more numbers to bring down.</p>
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