

# 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)

$$2 \overline{)4340446}$$

(2)

$$7 \overline{)3779182}$$

(3)

$$8 \overline{)6261973}$$

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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}  2170223 \text{ R}0 \\  2 \overline{) 4340446} \\  \underline{- 4} \qquad (2 \times 2) \\  03 \\  \underline{- 2} \qquad (1 \times 2) \\  14 \\  \underline{- 14} \qquad (7 \times 2) \\  00 \\  \underline{- 0} \qquad (0 \times 2) \\  04 \\  \underline{- 4} \qquad (2 \times 2) \\  04 \\  \underline{- 4} \qquad (2 \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 4 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 4 (= 0)            Bring down the 3</p> <p>Divide 2 into 03 (= 1)            Multiply 1 times 2 (= 2)            Subtract 2 from 03 (= 1)            Bring down the 4</p> <p>Divide 2 into 14 (= 7)            Multiply 7 times 2 (= 14)            Subtract 14 from 14 (= 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 4</p> <p>Divide 2 into 04 (= 2)            Multiply 2 times 2 (= 4)            Subtract 4 from 04 (= 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)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  539883 \text{ R}1 \\  7 \overline{) 3779182} \\  \underline{- 35} \qquad (5 \times 7) \\  27 \\  \underline{- 21} \qquad (3 \times 7) \\  69 \\  \underline{- 63} \qquad (9 \times 7) \\  61 \\  \underline{- 56} \qquad (8 \times 7) \\  58 \\  \underline{- 56} \qquad (8 \times 7) \\  22 \\  \underline{- 21} \qquad (3 \times 7) \\  \text{Remainder --> } 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 37 (= 5)            Multiply 5 times 7 (= 35)            Subtract 35 from 37 (= 2)            Bring down the 7</p> <p>Divide 7 into 27 (= 3)            Multiply 3 times 7 (= 21)            Subtract 21 from 27 (= 6)            Bring down the 9</p> <p>Divide 7 into 69 (= 9)            Multiply 9 times 7 (= 63)            Subtract 63 from 69 (= 6)            Bring down the 1</p> <p>Divide 7 into 61 (= 8)            Multiply 8 times 7 (= 56)            Subtract 56 from 61 (= 5)            Bring down the 8</p> <p>Divide 7 into 58 (= 8)            Multiply 8 times 7 (= 56)            Subtract 56 from 58 (= 2)            Bring down the 2</p> <p>Divide 7 into 22 (= 3)            Multiply 3 times 7 (= 21)            Subtract 21 from 22 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  782746 \text{ R}5 \\  8 \overline{) 6261973} \\  \underline{- 56} \qquad (7 \times 8) \\  66 \\  \underline{- 64} \qquad (8 \times 8) \\  21 \\  \underline{- 16} \qquad (2 \times 8) \\  59 \\  \underline{- 56} \qquad (7 \times 8) \\  37 \\  \underline{- 32} \qquad (4 \times 8) \\  53 \\  \underline{- 48} \qquad (6 \times 8) \\  \text{Remainder --> } 5  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 62 (= 7)            Multiply 7 times 8 (= 56)            Subtract 56 from 62 (= 6)            Bring down the 6</p> <p>Divide 8 into 66 (= 8)            Multiply 8 times 8 (= 64)            Subtract 64 from 66 (= 2)            Bring down the 1</p> <p>Divide 8 into 21 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 21 (= 5)            Bring down the 9</p> <p>Divide 8 into 59 (= 7)            Multiply 7 times 8 (= 56)            Subtract 56 from 59 (= 3)            Bring down the 7</p> <p>Divide 8 into 37 (= 4)            Multiply 4 times 8 (= 32)            Subtract 32 from 37 (= 5)            Bring down the 3</p> <p>Divide 8 into 53 (= 6)            Multiply 6 times 8 (= 48)            Subtract 48 from 53 (= 5)            Done. No more numbers to bring down.</p>
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