

# 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)

$$2 \overline{) 8693}$$

(2)

$$5 \overline{) 8620}$$

(3)

$$9 \overline{) 9489}$$

# 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

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

<p>(1)</p> $  \begin{array}{r}  4346 \text{ R1} \\  2 \overline{) 8693} \\  \underline{- 8} \qquad (4 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  09 \\  \underline{- 8} \qquad (4 \times 2) \\  13 \\  \underline{- 12} \qquad (6 \times 2) \\  \text{Remainder --> } 1  \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 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 0)            Bring down the 9</p> <p>Divide 2 into 09 (= 4)            Multiply 4 times 2 (= 8)            Subtract 8 from 09 (= 1)            Bring down the 3</p> <p>Divide 2 into 13 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 13 (= 1)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  1724 \text{ R0} \\  5 \overline{) 8620} \\  \underline{- 5} \qquad (1 \times 5) \\  36 \\  \underline{- 35} \qquad (7 \times 5) \\  12 \\  \underline{- 10} \qquad (2 \times 5) \\  20 \\  \underline{- 20} \qquad (4 \times 5) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 8 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 8 (= 3)            Bring down the 6</p> <p>Divide 5 into 36 (= 7)            Multiply 7 times 5 (= 35)            Subtract 35 from 36 (= 1)            Bring down the 2</p> <p>Divide 5 into 12 (= 2)            Multiply 2 times 5 (= 10)            Subtract 10 from 12 (= 2)            Bring down the 0</p> <p>Divide 5 into 20 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 20 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  1054 \text{ R3} \\  9 \overline{) 9489} \\  \underline{- 9} \qquad (1 \times 9) \\  04 \\  \underline{- 0} \qquad (0 \times 9) \\  48 \\  \underline{- 45} \qquad (5 \times 9) \\  39 \\  \underline{- 36} \qquad (4 \times 9) \\  \text{Remainder --> } 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 9 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 9 (= 0)            Bring down the 4</p> <p>Divide 9 into 04 (= 0)            Multiply 0 times 9 (= 0)            Subtract 0 from 04 (= 4)            Bring down the 8</p> <p>Divide 9 into 48 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 48 (= 3)            Bring down the 9</p> <p>Divide 9 into 39 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 39 (= 3)            Done. No more numbers to bring down.</p>
---	---	--