

# 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)

$$9 \overline{) 464593}$$

(2)

$$9 \overline{) 814541}$$

(3)

$$9 \overline{) 383075}$$

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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}  51621 \text{ R}4 \\  9 \overline{) 464593} \\  \underline{- 45} \qquad (5 \times 9) \\  14 \\  \underline{- 9} \qquad (1 \times 9) \\  55 \\  \underline{- 54} \qquad (6 \times 9) \\  19 \\  \underline{- 18} \qquad (2 \times 9) \\  13 \\  \underline{- 9} \qquad (1 \times 9) \\  \text{Remainder --> } 4  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 46 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 46 (= 1)            Bring down the 4</p> <p>Divide 9 into 14 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 14 (= 5)            Bring down the 5</p> <p>Divide 9 into 55 (= 6)            Multiply 6 times 9 (= 54)            Subtract 54 from 55 (= 1)            Bring down the 9</p> <p>Divide 9 into 19 (= 2)            Multiply 2 times 9 (= 18)            Subtract 18 from 19 (= 1)            Bring down the 3</p> <p>Divide 9 into 13 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 13 (= 4)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  90504 \text{ R}5 \\  9 \overline{) 814541} \\  \underline{- 81} \qquad (9 \times 9) \\  04 \\  \underline{- 0} \qquad (0 \times 9) \\  45 \\  \underline{- 45} \qquad (5 \times 9) \\  04 \\  \underline{- 0} \qquad (0 \times 9) \\  41 \\  \underline{- 36} \qquad (4 \times 9) \\  \text{Remainder --> } 5  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 81 (= 9)            Multiply 9 times 9 (= 81)            Subtract 81 from 81 (= 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 5</p> <p>Divide 9 into 45 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 45 (= 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 1</p> <p>Divide 9 into 41 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 41 (= 5)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  42563 \text{ R}8 \\  9 \overline{) 383075} \\  \underline{- 36} \qquad (4 \times 9) \\  23 \\  \underline{- 18} \qquad (2 \times 9) \\  50 \\  \underline{- 45} \qquad (5 \times 9) \\  57 \\  \underline{- 54} \qquad (6 \times 9) \\  35 \\  \underline{- 27} \qquad (3 \times 9) \\  \text{Remainder --> } 8  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 38 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 38 (= 2)            Bring down the 3</p> <p>Divide 9 into 23 (= 2)            Multiply 2 times 9 (= 18)            Subtract 18 from 23 (= 5)            Bring down the 0</p> <p>Divide 9 into 50 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 50 (= 5)            Bring down the 7</p> <p>Divide 9 into 57 (= 6)            Multiply 6 times 9 (= 54)            Subtract 54 from 57 (= 3)            Bring down the 5</p> <p>Divide 9 into 35 (= 3)            Multiply 3 times 9 (= 27)            Subtract 27 from 35 (= 8)            Done. No more numbers to bring down.</p>
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