

# 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)

$$618 \overline{) 1954125}$$

(2)

$$898 \overline{) 1922874}$$

(3)

$$378 \overline{) 6820557}$$

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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}  3162 \text{ R}9 \\  618 \overline{) 1954125} \\  \underline{- 1854} \quad (3 \times 618) \\  1001 \\  \underline{- 618} \quad (1 \times 618) \\  3832 \\  \underline{- 3708} \quad (6 \times 618) \\  1245 \\  \underline{- 1236} \quad (2 \times 618) \\  \text{Remainder -->} \quad 9  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 618 into 1954 (= 3)            Multiply 3 times 618 (= 1854)            Subtract 1854 from 1954 (= 100)            Bring down the 1</p> <p>Divide 618 into 1001 (= 1)            Multiply 1 times 618 (= 618)            Subtract 618 from 1001 (= 383)            Bring down the 2</p> <p>Divide 618 into 3832 (= 6)            Multiply 6 times 618 (= 3708)            Subtract 3708 from 3832 (= 124)            Bring down the 5</p> <p>Divide 618 into 1245 (= 2)            Multiply 2 times 618 (= 1236)            Subtract 1236 from 1245 (= 9)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  2141 \text{ R}256 \\  898 \overline{) 1922874} \\  \underline{- 1796} \quad (2 \times 898) \\  1268 \\  \underline{- 898} \quad (1 \times 898) \\  3707 \\  \underline{- 3592} \quad (4 \times 898) \\  1154 \\  \underline{- 898} \quad (1 \times 898) \\  \text{Remainder -->} \quad 256  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 898 into 1922 (= 2)            Multiply 2 times 898 (= 1796)            Subtract 1796 from 1922 (= 126)            Bring down the 8</p> <p>Divide 898 into 1268 (= 1)            Multiply 1 times 898 (= 898)            Subtract 898 from 1268 (= 370)            Bring down the 7</p> <p>Divide 898 into 3707 (= 4)            Multiply 4 times 898 (= 3592)            Subtract 3592 from 3707 (= 115)            Bring down the 4</p> <p>Divide 898 into 1154 (= 1)            Multiply 1 times 898 (= 898)            Subtract 898 from 1154 (= 256)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  18043 \text{ R}303 \\  378 \overline{) 6820557} \\  \underline{- 378} \quad (1 \times 378) \\  3040 \\  \underline{- 3024} \quad (8 \times 378) \\  165 \\  \underline{- 0} \quad (0 \times 378) \\  1655 \\  \underline{- 1512} \quad (4 \times 378) \\  1437 \\  \underline{- 1134} \quad (3 \times 378) \\  \text{Remainder -->} \quad 303  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 378 into 682 (= 1)            Multiply 1 times 378 (= 378)            Subtract 378 from 682 (= 304)            Bring down the 0</p> <p>Divide 378 into 3040 (= 8)            Multiply 8 times 378 (= 3024)            Subtract 3024 from 3040 (= 16)            Bring down the 5</p> <p>Divide 378 into 165 (= 0)            Multiply 0 times 378 (= 0)            Subtract 0 from 165 (= 165)            Bring down the 5</p> <p>Divide 378 into 1655 (= 4)            Multiply 4 times 378 (= 1512)            Subtract 1512 from 1655 (= 143)            Bring down the 7</p> <p>Divide 378 into 1437 (= 3)            Multiply 3 times 378 (= 1134)            Subtract 1134 from 1437 (= 303)            Done. No more numbers to bring down.</p>
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