

# 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)

$$634 \overline{) 2378125}$$

(2)

$$172 \overline{) 9272034}$$

(3)

$$665 \overline{) 5089851}$$

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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}  3750 \text{ R}625 \\  634 \overline{) 2378125} \\  \underline{- 1902} \quad (3 \times 634) \\  4761 \\  \underline{- 4438} \quad (7 \times 634) \\  3232 \\  \underline{- 3170} \quad (5 \times 634) \\  625 \\  \underline{- 0} \quad (0 \times 634) \\  \text{Remainder -->} \quad 625  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 634 into 2378 (= 3 )            Multiply 3 times 634 (= 1902 )            Subtract 1902 from 2378 (= 476 )            Bring down the 1</p> <p>Divide 634 into 4761 (= 7 )            Multiply 7 times 634 (= 4438 )            Subtract 4438 from 4761 (= 323 )            Bring down the 2</p> <p>Divide 634 into 3232 (= 5 )            Multiply 5 times 634 (= 3170 )            Subtract 3170 from 3232 (= 62 )            Bring down the 5</p> <p>Divide 634 into 625 (= 0 )            Multiply 0 times 634 (= 0 )            Subtract 0 from 625 (= 625 )            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  53907 \text{ R}30 \\  172 \overline{) 9272034} \\  \underline{- 860} \quad (5 \times 172) \\  672 \\  \underline{- 516} \quad (3 \times 172) \\  1560 \\  \underline{- 1548} \quad (9 \times 172) \\  123 \\  \underline{- 0} \quad (0 \times 172) \\  1234 \\  \underline{- 1204} \quad (7 \times 172) \\  \text{Remainder -->} \quad 30  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 172 into 927 (= 5 )            Multiply 5 times 172 (= 860 )            Subtract 860 from 927 (= 67 )            Bring down the 2</p> <p>Divide 172 into 672 (= 3 )            Multiply 3 times 172 (= 516 )            Subtract 516 from 672 (= 156 )            Bring down the 0</p> <p>Divide 172 into 1560 (= 9 )            Multiply 9 times 172 (= 1548 )            Subtract 1548 from 1560 (= 12 )            Bring down the 3</p> <p>Divide 172 into 123 (= 0 )            Multiply 0 times 172 (= 0 )            Subtract 0 from 123 (= 123 )            Bring down the 4</p> <p>Divide 172 into 1234 (= 7 )            Multiply 7 times 172 (= 1204 )            Subtract 1204 from 1234 (= 30 )            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  7653 \text{ R}606 \\  665 \overline{) 5089851} \\  \underline{- 4655} \quad (7 \times 665) \\  4348 \\  \underline{- 3990} \quad (6 \times 665) \\  3585 \\  \underline{- 3325} \quad (5 \times 665) \\  2601 \\  \underline{- 1995} \quad (3 \times 665) \\  \text{Remainder -->} \quad 606  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 665 into 5089 (= 7 )            Multiply 7 times 665 (= 4655 )            Subtract 4655 from 5089 (= 434 )            Bring down the 8</p> <p>Divide 665 into 4348 (= 6 )            Multiply 6 times 665 (= 3990 )            Subtract 3990 from 4348 (= 358 )            Bring down the 5</p> <p>Divide 665 into 3585 (= 5 )            Multiply 5 times 665 (= 3325 )            Subtract 3325 from 3585 (= 260 )            Bring down the 1</p> <p>Divide 665 into 2601 (= 3 )            Multiply 3 times 665 (= 1995 )            Subtract 1995 from 2601 (= 606 )            Done. No more numbers to bring down.</p>
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