

# 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)

$$22 \overline{) 1912744}$$

(2)

$$94 \overline{) 8998527}$$

(3)

$$89 \overline{) 6832172}$$

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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}  86942 \text{ R}20 \\  22 \overline{) 1912744} \\  \underline{- 176} \quad (8 \times 22) \\  152 \\  \underline{- 132} \quad (6 \times 22) \\  207 \\  \underline{- 198} \quad (9 \times 22) \\  94 \\  \underline{- 88} \quad (4 \times 22) \\  64 \\  \underline{- 44} \quad (2 \times 22) \\  \hline  \text{Remainder -->} \quad 20  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 22 into 191 (= 8)            Multiply 8 times 22 (= 176)            Subtract 176 from 191 (= 15)            Bring down the 2</p> <p>Divide 22 into 152 (= 6)            Multiply 6 times 22 (= 132)            Subtract 132 from 152 (= 20)            Bring down the 7</p> <p>Divide 22 into 207 (= 9)            Multiply 9 times 22 (= 198)            Subtract 198 from 207 (= 9)            Bring down the 4</p> <p>Divide 22 into 94 (= 4)            Multiply 4 times 22 (= 88)            Subtract 88 from 94 (= 6)            Bring down the 4</p> <p>Divide 22 into 64 (= 2)            Multiply 2 times 22 (= 44)            Subtract 44 from 64 (= 20)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  95729 \text{ R}1 \\  94 \overline{) 8998527} \\  \underline{- 846} \quad (9 \times 94) \\  538 \\  \underline{- 470} \quad (5 \times 94) \\  685 \\  \underline{- 658} \quad (7 \times 94) \\  272 \\  \underline{- 188} \quad (2 \times 94) \\  847 \\  \underline{- 846} \quad (9 \times 94) \\  \hline  \text{Remainder -->} \quad 1  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 94 into 899 (= 9)            Multiply 9 times 94 (= 846)            Subtract 846 from 899 (= 53)            Bring down the 8</p> <p>Divide 94 into 538 (= 5)            Multiply 5 times 94 (= 470)            Subtract 470 from 538 (= 68)            Bring down the 5</p> <p>Divide 94 into 685 (= 7)            Multiply 7 times 94 (= 658)            Subtract 658 from 685 (= 27)            Bring down the 2</p> <p>Divide 94 into 272 (= 2)            Multiply 2 times 94 (= 188)            Subtract 188 from 272 (= 84)            Bring down the 7</p> <p>Divide 94 into 847 (= 9)            Multiply 9 times 94 (= 846)            Subtract 846 from 847 (= 1)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  76765 \text{ R}87 \\  89 \overline{) 6832172} \\  \underline{- 623} \quad (7 \times 89) \\  602 \\  \underline{- 534} \quad (6 \times 89) \\  681 \\  \underline{- 623} \quad (7 \times 89) \\  587 \\  \underline{- 534} \quad (6 \times 89) \\  532 \\  \underline{- 445} \quad (5 \times 89) \\  \hline  \text{Remainder -->} \quad 87  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 89 into 683 (= 7)            Multiply 7 times 89 (= 623)            Subtract 623 from 683 (= 60)            Bring down the 2</p> <p>Divide 89 into 602 (= 6)            Multiply 6 times 89 (= 534)            Subtract 534 from 602 (= 68)            Bring down the 1</p> <p>Divide 89 into 681 (= 7)            Multiply 7 times 89 (= 623)            Subtract 623 from 681 (= 58)            Bring down the 7</p> <p>Divide 89 into 587 (= 6)            Multiply 6 times 89 (= 534)            Subtract 534 from 587 (= 53)            Bring down the 2</p> <p>Divide 89 into 532 (= 5)            Multiply 5 times 89 (= 445)            Subtract 445 from 532 (= 87)            Done. No more numbers to bring down.</p>
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