

# 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)

$$66 \overline{) 766376}$$

(2)

$$29 \overline{) 723263}$$

(3)

$$76 \overline{) 979205}$$

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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}  11611 \text{ R}50 \\  66 \overline{) 766376} \\  \underline{- 66} \qquad (1 \times 66) \\  106 \\  \underline{- 66} \qquad (1 \times 66) \\  403 \\  \underline{- 396} \qquad (6 \times 66) \\  77 \\  \underline{- 66} \qquad (1 \times 66) \\  116 \\  \underline{- 66} \qquad (1 \times 66) \\  \hline  \text{Remainder -->} \quad 50  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 66 into 76 (= 1)            Multiply 1 times 66 (= 66)            Subtract 66 from 76 (= 10)            Bring down the 6</p> <p>Divide 66 into 106 (= 1)            Multiply 1 times 66 (= 66)            Subtract 66 from 106 (= 40)            Bring down the 3</p> <p>Divide 66 into 403 (= 6)            Multiply 6 times 66 (= 396)            Subtract 396 from 403 (= 7)            Bring down the 7</p> <p>Divide 66 into 77 (= 1)            Multiply 1 times 66 (= 66)            Subtract 66 from 77 (= 11)            Bring down the 6</p> <p>Divide 66 into 116 (= 1)            Multiply 1 times 66 (= 66)            Subtract 66 from 116 (= 50)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  24940 \text{ R}3 \\  29 \overline{) 723263} \\  \underline{- 58} \qquad (2 \times 29) \\  143 \\  \underline{- 116} \qquad (4 \times 29) \\  272 \\  \underline{- 261} \qquad (9 \times 29) \\  116 \\  \underline{- 116} \qquad (4 \times 29) \\  03 \\  \underline{- 0} \qquad (0 \times 29) \\  \hline  \text{Remainder -->} \quad 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 29 into 72 (= 2)            Multiply 2 times 29 (= 58)            Subtract 58 from 72 (= 14)            Bring down the 3</p> <p>Divide 29 into 143 (= 4)            Multiply 4 times 29 (= 116)            Subtract 116 from 143 (= 27)            Bring down the 2</p> <p>Divide 29 into 272 (= 9)            Multiply 9 times 29 (= 261)            Subtract 261 from 272 (= 11)            Bring down the 6</p> <p>Divide 29 into 116 (= 4)            Multiply 4 times 29 (= 116)            Subtract 116 from 116 (= 0)            Bring down the 3</p> <p>Divide 29 into 03 (= 0)            Multiply 0 times 29 (= 0)            Subtract 0 from 03 (= 3)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  12884 \text{ R}21 \\  76 \overline{) 979205} \\  \underline{- 76} \qquad (1 \times 76) \\  219 \\  \underline{- 152} \qquad (2 \times 76) \\  672 \\  \underline{- 608} \qquad (8 \times 76) \\  640 \\  \underline{- 608} \qquad (8 \times 76) \\  325 \\  \underline{- 304} \qquad (4 \times 76) \\  \hline  \text{Remainder -->} \quad 21  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 76 into 97 (= 1)            Multiply 1 times 76 (= 76)            Subtract 76 from 97 (= 21)            Bring down the 9</p> <p>Divide 76 into 219 (= 2)            Multiply 2 times 76 (= 152)            Subtract 152 from 219 (= 67)            Bring down the 2</p> <p>Divide 76 into 672 (= 8)            Multiply 8 times 76 (= 608)            Subtract 608 from 672 (= 64)            Bring down the 0</p> <p>Divide 76 into 640 (= 8)            Multiply 8 times 76 (= 608)            Subtract 608 from 640 (= 32)            Bring down the 5</p> <p>Divide 76 into 325 (= 4)            Multiply 4 times 76 (= 304)            Subtract 304 from 325 (= 21)            Done. No more numbers to bring down.</p>
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