

# 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)

$$13 \overline{) 9498266}$$

(2)

$$91 \overline{) 3151530}$$

(3)

$$92 \overline{) 3985204}$$

# 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

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $  \begin{array}{r}  730635 \text{ R}11 \\  13 \overline{) 9498266} \\  \underline{- 91} \qquad (7 \times 13) \\  39 \\  \underline{- 39} \qquad (3 \times 13) \\  08 \\  \underline{- 0} \qquad (0 \times 13) \\  82 \\  \underline{- 78} \qquad (6 \times 13) \\  46 \\  \underline{- 39} \qquad (3 \times 13) \\  76 \\  \underline{- 65} \qquad (5 \times 13) \\  11  \end{array}  $ <p>Remainder --&gt; 11</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 13 into 94 (= 7)            Multiply 7 times 13 (= 91)            Subtract 91 from 94 (= 3)            Bring down the 9</p> <p>Divide 13 into 39 (= 3)            Multiply 3 times 13 (= 39)            Subtract 39 from 39 (= 0)            Bring down the 8</p> <p>Divide 13 into 08 (= 0)            Multiply 0 times 13 (= 0)            Subtract 0 from 08 (= 8)            Bring down the 2</p> <p>Divide 13 into 82 (= 6)            Multiply 6 times 13 (= 78)            Subtract 78 from 82 (= 4)            Bring down the 6</p> <p>Divide 13 into 46 (= 3)            Multiply 3 times 13 (= 39)            Subtract 39 from 46 (= 7)            Bring down the 6</p> <p>Divide 13 into 76 (= 5)            Multiply 5 times 13 (= 65)            Subtract 65 from 76 (= 11)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  34632 \text{ R}18 \\  91 \overline{) 3151530} \\  \underline{- 273} \qquad (3 \times 91) \\  421 \\  \underline{- 364} \qquad (4 \times 91) \\  575 \\  \underline{- 546} \qquad (6 \times 91) \\  293 \\  \underline{- 273} \qquad (3 \times 91) \\  200 \\  \underline{- 182} \qquad (2 \times 91) \\  18  \end{array}  $ <p>Remainder --&gt; 18</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 91 into 315 (= 3)            Multiply 3 times 91 (= 273)            Subtract 273 from 315 (= 42)            Bring down the 1</p> <p>Divide 91 into 421 (= 4)            Multiply 4 times 91 (= 364)            Subtract 364 from 421 (= 57)            Bring down the 5</p> <p>Divide 91 into 575 (= 6)            Multiply 6 times 91 (= 546)            Subtract 546 from 575 (= 29)            Bring down the 3</p> <p>Divide 91 into 293 (= 3)            Multiply 3 times 91 (= 273)            Subtract 273 from 293 (= 20)            Bring down the 0</p> <p>Divide 91 into 200 (= 2)            Multiply 2 times 91 (= 182)            Subtract 182 from 200 (= 18)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  43317 \text{ R}40 \\  92 \overline{) 3985204} \\  \underline{- 368} \qquad (4 \times 92) \\  305 \\  \underline{- 276} \qquad (3 \times 92) \\  292 \\  \underline{- 276} \qquad (3 \times 92) \\  160 \\  \underline{- 92} \qquad (1 \times 92) \\  684 \\  \underline{- 644} \qquad (7 \times 92) \\  40  \end{array}  $ <p>Remainder --&gt; 40</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 92 into 398 (= 4)            Multiply 4 times 92 (= 368)            Subtract 368 from 398 (= 30)            Bring down the 5</p> <p>Divide 92 into 305 (= 3)            Multiply 3 times 92 (= 276)            Subtract 276 from 305 (= 29)            Bring down the 2</p> <p>Divide 92 into 292 (= 3)            Multiply 3 times 92 (= 276)            Subtract 276 from 292 (= 16)            Bring down the 0</p> <p>Divide 92 into 160 (= 1)            Multiply 1 times 92 (= 92)            Subtract 92 from 160 (= 68)            Bring down the 4</p> <p>Divide 92 into 684 (= 7)            Multiply 7 times 92 (= 644)            Subtract 644 from 684 (= 40)            Done. No more numbers to bring down.</p>
---	---	--