

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)

$$18 \overline{) 3353403}$$

(2)

$$79 \overline{) 4386976}$$

(3)

$$27 \overline{) 7170512}$$

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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} 18 \overline{) 3353403} \text{ R}3 \\ \underline{- 18} \qquad \qquad (1 \times 18) \\ 155 \\ \underline{- 144} \qquad \qquad (8 \times 18) \\ 113 \\ \underline{- 108} \qquad \qquad (6 \times 18) \\ 54 \\ \underline{- 54} \qquad \qquad (3 \times 18) \\ 00 \\ \underline{- 0} \qquad \qquad (0 \times 18) \\ 03 \\ \underline{- 0} \qquad \qquad (0 \times 18) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 18 into 33 (= 1) Multiply 1 times 18 (= 18) Subtract 18 from 33 (= 15) Bring down the 5</p> <p>Divide 18 into 155 (= 8) Multiply 8 times 18 (= 144) Subtract 144 from 155 (= 11) Bring down the 3</p> <p>Divide 18 into 113 (= 6) Multiply 6 times 18 (= 108) Subtract 108 from 113 (= 5) Bring down the 4</p> <p>Divide 18 into 54 (= 3) Multiply 3 times 18 (= 54) Subtract 54 from 54 (= 0) Bring down the 0</p> <p>Divide 18 into 00 (= 0) Multiply 0 times 18 (= 0) Subtract 0 from 00 (= 0) Bring down the 3</p> <p>Divide 18 into 03 (= 0) Multiply 0 times 18 (= 0) Subtract 0 from 03 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 79 \overline{) 4386976} \text{ R}27 \\ \underline{- 395} \qquad \qquad (5 \times 79) \\ 436 \\ \underline{- 395} \qquad \qquad (5 \times 79) \\ 419 \\ \underline{- 395} \qquad \qquad (5 \times 79) \\ 247 \\ \underline{- 237} \qquad \qquad (3 \times 79) \\ 106 \\ \underline{- 79} \qquad \qquad (1 \times 79) \\ \text{Remainder -->} \quad 27 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 79 into 438 (= 5) Multiply 5 times 79 (= 395) Subtract 395 from 438 (= 43) Bring down the 6</p> <p>Divide 79 into 436 (= 5) Multiply 5 times 79 (= 395) Subtract 395 from 436 (= 41) Bring down the 9</p> <p>Divide 79 into 419 (= 5) Multiply 5 times 79 (= 395) Subtract 395 from 419 (= 24) Bring down the 7</p> <p>Divide 79 into 247 (= 3) Multiply 3 times 79 (= 237) Subtract 237 from 247 (= 10) Bring down the 6</p> <p>Divide 79 into 106 (= 1) Multiply 1 times 79 (= 79) Subtract 79 from 106 (= 27) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 27 \overline{) 265574} \text{ R}14 \\ \underline{- 54} \qquad \qquad (2 \times 27) \\ 177 \\ \underline{- 162} \qquad \qquad (6 \times 27) \\ 150 \\ \underline{- 135} \qquad \qquad (5 \times 27) \\ 155 \\ \underline{- 135} \qquad \qquad (5 \times 27) \\ 201 \\ \underline{- 189} \qquad \qquad (7 \times 27) \\ 122 \\ \underline{- 108} \qquad \qquad (4 \times 27) \\ \text{Remainder -->} \quad 14 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 27 into 71 (= 2) Multiply 2 times 27 (= 54) Subtract 54 from 71 (= 17) Bring down the 7</p> <p>Divide 27 into 177 (= 6) Multiply 6 times 27 (= 162) Subtract 162 from 177 (= 15) Bring down the 0</p> <p>Divide 27 into 150 (= 5) Multiply 5 times 27 (= 135) Subtract 135 from 150 (= 15) Bring down the 5</p> <p>Divide 27 into 155 (= 5) Multiply 5 times 27 (= 135) Subtract 135 from 155 (= 20) Bring down the 1</p> <p>Divide 27 into 201 (= 7) Multiply 7 times 27 (= 189) Subtract 189 from 201 (= 12) Bring down the 2</p> <p>Divide 27 into 122 (= 4) Multiply 4 times 27 (= 108) Subtract 108 from 122 (= 14) Done. No more numbers to bring down.</p>
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