

# 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)

$$6 \overline{) 557753}$$

(2)

$$7 \overline{) 184629}$$

(3)

$$9 \overline{) 397024}$$

# 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}  92958 \text{ R}5 \\  6 \overline{) 557753} \\  \underline{- 54} \qquad (9 \times 6) \\  17 \\  \underline{- 12} \qquad (2 \times 6) \\  57 \\  \underline{- 54} \qquad (9 \times 6) \\  35 \\  \underline{- 30} \qquad (5 \times 6) \\  53 \\  \underline{- 48} \qquad (8 \times 6) \\  \text{Remainder --> } 5  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 55 (= 9)            Multiply 9 times 6 (= 54)            Subtract 54 from 55 (= 1)            Bring down the 7</p> <p>Divide 6 into 17 (= 2)            Multiply 2 times 6 (= 12)            Subtract 12 from 17 (= 5)            Bring down the 7</p> <p>Divide 6 into 57 (= 9)            Multiply 9 times 6 (= 54)            Subtract 54 from 57 (= 3)            Bring down the 5</p> <p>Divide 6 into 35 (= 5)            Multiply 5 times 6 (= 30)            Subtract 30 from 35 (= 5)            Bring down the 3</p> <p>Divide 6 into 53 (= 8)            Multiply 8 times 6 (= 48)            Subtract 48 from 53 (= 5)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  26375 \text{ R}4 \\  7 \overline{) 184629} \\  \underline{- 14} \qquad (2 \times 7) \\  44 \\  \underline{- 42} \qquad (6 \times 7) \\  26 \\  \underline{- 21} \qquad (3 \times 7) \\  52 \\  \underline{- 49} \qquad (7 \times 7) \\  39 \\  \underline{- 35} \qquad (5 \times 7) \\  \text{Remainder --> } 4  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 18 (= 2)            Multiply 2 times 7 (= 14)            Subtract 14 from 18 (= 4)            Bring down the 4</p> <p>Divide 7 into 44 (= 6)            Multiply 6 times 7 (= 42)            Subtract 42 from 44 (= 2)            Bring down the 6</p> <p>Divide 7 into 26 (= 3)            Multiply 3 times 7 (= 21)            Subtract 21 from 26 (= 5)            Bring down the 2</p> <p>Divide 7 into 52 (= 7)            Multiply 7 times 7 (= 49)            Subtract 49 from 52 (= 3)            Bring down the 9</p> <p>Divide 7 into 39 (= 5)            Multiply 5 times 7 (= 35)            Subtract 35 from 39 (= 4)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  44113 \text{ R}7 \\  9 \overline{) 397024} \\  \underline{- 36} \qquad (4 \times 9) \\  37 \\  \underline{- 36} \qquad (4 \times 9) \\  10 \\  \underline{- 9} \qquad (1 \times 9) \\  12 \\  \underline{- 9} \qquad (1 \times 9) \\  34 \\  \underline{- 27} \qquad (3 \times 9) \\  \text{Remainder --> } 7  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 39 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 39 (= 3)            Bring down the 7</p> <p>Divide 9 into 37 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 37 (= 1)            Bring down the 0</p> <p>Divide 9 into 10 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 10 (= 1)            Bring down the 2</p> <p>Divide 9 into 12 (= 1)            Multiply 1 times 9 (= 9)            Subtract 9 from 12 (= 3)            Bring down the 4</p> <p>Divide 9 into 34 (= 3)            Multiply 3 times 9 (= 27)            Subtract 27 from 34 (= 7)            Done. No more numbers to bring down.</p>
---	---	---