

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)

$$61 \overline{) 4551367}$$

(2)

$$12 \overline{) 9174080}$$

(3)

$$57 \overline{) 1407034}$$

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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} 74612 \text{ R}35 \\ 61 \overline{) 4551367} \\ \underline{- 427} \quad (7 \times 61) \\ 281 \\ \underline{- 244} \quad (4 \times 61) \\ 373 \\ \underline{- 366} \quad (6 \times 61) \\ 76 \\ \underline{- 61} \quad (1 \times 61) \\ 157 \\ \underline{- 122} \quad (2 \times 61) \\ \text{Remainder -->} \quad 35 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 61 into 455 (= 7) Multiply 7 times 61 (= 427) Subtract 427 from 455 (= 28) Bring down the 1</p> <p>Divide 61 into 281 (= 4) Multiply 4 times 61 (= 244) Subtract 244 from 281 (= 37) Bring down the 3</p> <p>Divide 61 into 373 (= 6) Multiply 6 times 61 (= 366) Subtract 366 from 373 (= 7) Bring down the 6</p> <p>Divide 61 into 76 (= 1) Multiply 1 times 61 (= 61) Subtract 61 from 76 (= 15) Bring down the 7</p> <p>Divide 61 into 157 (= 2) Multiply 2 times 61 (= 122) Subtract 122 from 157 (= 35) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 764506 \text{ R}8 \\ 12 \overline{) 9174080} \\ \underline{- 84} \quad (7 \times 12) \\ 77 \\ \underline{- 72} \quad (6 \times 12) \\ 54 \\ \underline{- 48} \quad (4 \times 12) \\ 60 \\ \underline{- 60} \quad (5 \times 12) \\ 08 \\ \underline{- 0} \quad (0 \times 12) \\ 80 \\ \underline{- 72} \quad (6 \times 12) \\ \text{Remainder -->} \quad 8 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 12 into 91 (= 7) Multiply 7 times 12 (= 84) Subtract 84 from 91 (= 7) Bring down the 7</p> <p>Divide 12 into 77 (= 6) Multiply 6 times 12 (= 72) Subtract 72 from 77 (= 5) Bring down the 4</p> <p>Divide 12 into 54 (= 4) Multiply 4 times 12 (= 48) Subtract 48 from 54 (= 6) Bring down the 0</p> <p>Divide 12 into 60 (= 5) Multiply 5 times 12 (= 60) Subtract 60 from 60 (= 0) Bring down the 8</p> <p>Divide 12 into 08 (= 0) Multiply 0 times 12 (= 0) Subtract 0 from 08 (= 8) Bring down the 0</p> <p>Divide 12 into 80 (= 6) Multiply 6 times 12 (= 72) Subtract 72 from 80 (= 8) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 24684 \text{ R}46 \\ 57 \overline{) 1407034} \\ \underline{- 114} \quad (2 \times 57) \\ 267 \\ \underline{- 228} \quad (4 \times 57) \\ 390 \\ \underline{- 342} \quad (6 \times 57) \\ 483 \\ \underline{- 456} \quad (8 \times 57) \\ 274 \\ \underline{- 228} \quad (4 \times 57) \\ \text{Remainder -->} \quad 46 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 57 into 140 (= 2) Multiply 2 times 57 (= 114) Subtract 114 from 140 (= 26) Bring down the 7</p> <p>Divide 57 into 267 (= 4) Multiply 4 times 57 (= 228) Subtract 228 from 267 (= 39) Bring down the 0</p> <p>Divide 57 into 390 (= 6) Multiply 6 times 57 (= 342) Subtract 342 from 390 (= 48) Bring down the 3</p> <p>Divide 57 into 483 (= 8) Multiply 8 times 57 (= 456) Subtract 456 from 483 (= 27) Bring down the 4</p> <p>Divide 57 into 274 (= 4) Multiply 4 times 57 (= 228) Subtract 228 from 274 (= 46) Done. No more numbers to bring down.</p>
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