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)

$3\overline{)8478}$

(2)

$9\overline{)4449}$

(3)

$4\overline{)4651}$

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

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(1)

```
        2826 R0
   _____
 3 | 8478
     -  6            ( 2 x 3 )
     _____
        24
     -  24            ( 8 x 3 )
     _____
        07
      -  6            ( 2 x 3 )
     _____
        18
      - 18            ( 6 x 3 )
     _____
Remainder -->     0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 8 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 4

Divide 3 into 24 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 7

Divide 3 into 07 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 07 (= 1)
Bring down the 8

Divide 3 into 18 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 18 (= 0)
Done. No more numbers to bring down.

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(2)

```
        494 R3
   _____
 9 | 4449
     - 36            ( 4 x 9 )
     _____
        84
      - 81            ( 9 x 9 )
     _____
        39
      - 36            ( 4 x 9 )
     _____
Remainder -->    3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 44 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 44 (= 8)
Bring down the 4

Divide 9 into 84 (= 9)
Multiply 9 times 9 (= 81)
Subtract 81 from 84 (= 3)
Bring down the 9

Divide 9 into 39 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 39 (= 3)
Done. No more numbers to bring down.

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(3)

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        1162 R3
   _____
 4 | 4651
     -  4            ( 1 x 4 )
     _____
        06
      -  4            ( 1 x 4 )
     _____
        25
      - 24            ( 6 x 4 )
     _____
        11
       - 8            ( 2 x 4 )
     _____
Remainder -->    3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 4 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 4 (= 0)
Bring down the 6

Divide 4 into 06 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 06 (= 2)
Bring down the 5

Divide 4 into 25 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 25 (= 1)
Bring down the 1

Divide 4 into 11 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 11 (= 3)
Done. No more numbers to bring down.