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)

$$3 \overline{)229074}$$

(2)

$$9 \overline{)193628}$$

(3)

$$2 \overline{)855474}$$

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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"

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(1)

```
            76358 R0
      _____
   3 | 229074
     -  21              ( 7 x 3 )
        ___
        19
      -  18             ( 6 x 3 )
         ___
         10
       -   9            ( 3 x 3 )
          ___
          17
        -  15           ( 5 x 3 )
           ___
           24
         -  24          ( 8 x 3 )
            ___
Remainder -->   0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 22 (= 7)
Multiply 7 times 3 (= 21)
Subtract 21 from 22 (= 1)
Bring down the 9

Divide 3 into 19 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 0

Divide 3 into 10 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 10 (= 1)
Bring down the 7

Divide 3 into 17 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 17 (= 2)
Bring down the 4

Divide 3 into 24 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 24 (= 0)
Done. No more numbers to bring down.

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(2)

```
            21514 R2
      _____
   9 | 193628
     -  18              ( 2 x 9 )
        ___
        13
      -   9             ( 1 x 9 )
         ___
         46
       -  45            ( 5 x 9 )
          ___
          12
        -   9           ( 1 x 9 )
           ___
           38
         -  36          ( 4 x 9 )
            ___
Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 19 (= 2)
Multiply 2 times 9 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 3

Divide 9 into 13 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 13 (= 4)
Bring down the 6

Divide 9 into 46 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 46 (= 1)
Bring down the 2

Divide 9 into 12 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 12 (= 3)
Bring down the 8

Divide 9 into 38 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 38 (= 2)
Done. No more numbers to bring down.

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(3)

```
            427737 R0
      _____
   2 | 855474
     -   8              ( 4 x 2 )
        ___
        05
      -   4             ( 2 x 2 )
         ___
         15
       -  14            ( 7 x 2 )
          ___
          14
        -  14           ( 7 x 2 )
           ___
           07
         -   6          ( 3 x 2 )
            ___
            14
          -  14         ( 7 x 2 )
             ___
Remainder -->   0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 8 (= 4)
Multiply 4 times 2 (= 8)
Subtract 8 from 8 (= 0)
Bring down the 5

Divide 2 into 05 (= 2)
Multiply 2 times 2 (= 4)
Subtract 4 from 05 (= 1)
Bring down the 5

Divide 2 into 15 (= 7)
Multiply 7 times 2 (= 14)
Subtract 14 from 15 (= 1)
Bring down the 4

Divide 2 into 14 (= 7)
Multiply 7 times 2 (= 14)
Subtract 14 from 14 (= 0)
Bring down the 7

Divide 2 into 07 (= 3)
Multiply 3 times 2 (= 6)
Subtract 6 from 07 (= 1)
Bring down the 4

Divide 2 into 14 (= 7)
Multiply 7 times 2 (= 14)
Subtract 14 from 14 (= 0)
Done. No more numbers to bring down.