# 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)

$8\overline{)8114}$

(2)

$3\overline{)6282}$

(3)

$3\overline{)1719}$

# 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"*

(1)

```
      1014 R2
   8 | 8114
     - 8          ( 1 x 8 )
       01
     - 0          ( 0 x 8 )
       11
     - 8          ( 1 x 8 )
       34
     - 32         ( 4 x 8 )
        2
```

*Remainder -->* 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 8 ( = 1 )
Multiply 1 times 8 ( = 8 )
Subtract 8 from 8 ( = 0 )
Bring down the 1

Divide 8 into 01 ( = 0 )
Multiply 0 times 8 ( = 0 )
Subtract 0 from 01 ( = 1 )
Bring down the 1

Divide 8 into 11 ( = 1 )
Multiply 1 times 8 ( = 8 )
Subtract 8 from 11 ( = 3 )
Bring down the 4

Divide 8 into 34 ( = 4 )
Multiply 4 times 8 ( = 32 )
Subtract 32 from 34 ( = 2 )
Done. No more numbers to bring down.

(2)

```
      2094 R0
   3 | 6282
     - 6          ( 2 x 3 )
       02
     - 0          ( 0 x 3 )
       28
     - 27         ( 9 x 3 )
       12
     - 12         ( 4 x 3 )
        0
```

*Remainder -->* 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 6 ( = 2 )
Multiply 2 times 3 ( = 6 )
Subtract 6 from 6 ( = 0 )
Bring down the 2

Divide 3 into 02 ( = 0 )
Multiply 0 times 3 ( = 0 )
Subtract 0 from 02 ( = 2 )
Bring down the 8

Divide 3 into 28 ( = 9 )
Multiply 9 times 3 ( = 27 )
Subtract 27 from 28 ( = 1 )
Bring down the 2

Divide 3 into 12 ( = 4 )
Multiply 4 times 3 ( = 12 )
Subtract 12 from 12 ( = 0 )
Done. No more numbers to bring down.

(3)

```
      573 R0
   3 | 1719
     - 15         ( 5 x 3 )
       21
     - 21         ( 7 x 3 )
       09
     - 9          ( 3 x 3 )
        0
```

*Remainder -->* 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 17 ( = 5 )
Multiply 5 times 3 ( = 15 )
Subtract 15 from 17 ( = 2 )
Bring down the 1

Divide 3 into 21 ( = 7 )
Multiply 7 times 3 ( = 21 )
Subtract 21 from 21 ( = 0 )
Bring down the 9

Divide 3 into 09 ( = 3 )
Multiply 3 times 3 ( = 9 )
Subtract 9 from 09 ( = 0 )
Done. No more numbers to bring down.