# 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)

$89\overline{)78501}$

(2)

$35\overline{)28110}$

(3)

$65\overline{)37549}$

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

(1)

```
      882 R3
   ---------
89 | 78501
   - 712          ( 8 x 89 )
     ---
     730
   - 712          ( 8 x 89 )
     ---
     181
   - 178          ( 2 x 89 )
     ---
       3
```

*Remainder -->* 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 89 into 785 ( = 8 )
Multiply 8 times 89 ( = 712 )
Subtract 712 from 785 ( = 73 )
Bring down the 0

Divide 89 into 730 ( = 8 )
Multiply 8 times 89 ( = 712 )
Subtract 712 from 730 ( = 18 )
Bring down the 1

Divide 89 into 181 ( = 2 )
Multiply 2 times 89 ( = 178 )
Subtract 178 from 181 ( = 3 )
Done. No more numbers to bring down.

(2)

```
      803 R5
   ---------
35 | 28110
   - 280          ( 8 x 35 )
     ---
      11
   -  0           ( 0 x 35 )
     ---
     110
   - 105          ( 3 x 35 )
     ---
       5
```

*Remainder -->* 5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 35 into 281 ( = 8 )
Multiply 8 times 35 ( = 280 )
Subtract 280 from 281 ( = 1 )
Bring down the 1

Divide 35 into 11 ( = 0 )
Multiply 0 times 35 ( = 0 )
Subtract 0 from 11 ( = 11 )
Bring down the 0

Divide 35 into 110 ( = 3 )
Multiply 3 times 35 ( = 105 )
Subtract 105 from 110 ( = 5 )
Done. No more numbers to bring down.

(3)

```
      577 R44
   ---------
65 | 37549
   - 325          ( 5 x 65 )
     ---
     504
   - 455          ( 7 x 65 )
     ---
     499
   - 455          ( 7 x 65 )
     ---
      44
```

*Remainder -->* 44

Divide, Multiply, Subtract, Bring down, Repeat

Divide 65 into 375 ( = 5 )
Multiply 5 times 65 ( = 325 )
Subtract 325 from 375 ( = 50 )
Bring down the 4

Divide 65 into 504 ( = 7 )
Multiply 7 times 65 ( = 455 )
Subtract 455 from 504 ( = 49 )
Bring down the 9

Divide 65 into 499 ( = 7 )
Multiply 7 times 65 ( = 455 )
Subtract 455 from 499 ( = 44 )
Done. No more numbers to bring down.