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)

$$3\overline{)85}$$

(2)

$$8\overline{)24}$$

(3)

$$4\overline{)55}$$

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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)

```
        28  R1
      _____
  3  |  85
     -  6              ( 2 x 3 )
      _____
        25
     -  24             ( 8 x 3 )
```
Remainder -->   1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 8 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 5

Divide 3 into 25 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 25 (= 1)
Done. No more numbers to bring down.

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(2)

```
         3  R0
      _____
  8  |  24
     -  24             ( 3 x 8 )
```
Remainder -->   0

Divide, Multiply, Subtract, Bring down, Repeat

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

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(3)

```
        13  R3
      _____
  4  |  55
     -  4              ( 1 x 4 )
      _____
        15
     -  12             ( 3 x 4 )
```
Remainder -->   3

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 4 into 15 (= 3)
Multiply 3 times 4 (= 12)
Subtract 12 from 15 (= 3)
Done. No more numbers to bring down.