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)

83 | 48669

(2)

57 | 16438

(3)

83 | 53202

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

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(1)

```
            586 R31
        ┌─────────
     83 │ 48669
      −  415          ( 5 x 83 )
         ────
          716
       −  664          ( 8 x 83 )
          ────
           529
        −  498          ( 6 x 83 )
           ────
Remainder -->   31
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 83 into 486 (= 5)
Multiply 5 times 83 (= 415)
Subtract 415 from 486 (= 71)
Bring down the 6

Divide 83 into 716 (= 8)
Multiply 8 times 83 (= 664)
Subtract 664 from 716 (= 52)
Bring down the 9

Divide 83 into 529 (= 6)
Multiply 6 times 83 (= 498)
Subtract 498 from 529 (= 31)
Done. No more numbers to bring down.

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(2)

```
            288 R22
        ┌─────────
     57 │ 16438
      −  114          ( 2 x 57 )
         ────
          503
       −  456          ( 8 x 57 )
          ────
           478
        −  456          ( 8 x 57 )
           ────
Remainder -->   22
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 57 into 164 (= 2)
Multiply 2 times 57 (= 114)
Subtract 114 from 164 (= 50)
Bring down the 3

Divide 57 into 503 (= 8)
Multiply 8 times 57 (= 456)
Subtract 456 from 503 (= 47)
Bring down the 8

Divide 57 into 478 (= 8)
Multiply 8 times 57 (= 456)
Subtract 456 from 478 (= 22)
Done. No more numbers to bring down.

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(3)

```
            640 R82
        ┌─────────
     83 │ 53202
      −  498          ( 6 x 83 )
         ────
          340
       −  332          ( 4 x 83 )
          ────
           82
        −   0          ( 0 x 83 )
           ────
Remainder -->   82
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 83 into 532 (= 6)
Multiply 6 times 83 (= 498)
Subtract 498 from 532 (= 34)
Bring down the 0

Divide 83 into 340 (= 4)
Multiply 4 times 83 (= 332)
Subtract 332 from 340 (= 8)
Bring down the 2

Divide 83 into 82 (= 0)
Multiply 0 times 83 (= 0)
Subtract 0 from 82 (= 82)
Done. No more numbers to bring down.