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)

$48\overline{)88393}$

(2)

$44\overline{)39949}$

(3)

$98\overline{)16487}$

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

(1)

```
     1841 R25
48 | 88393
   - 48        ( 1 x 48 )
     403
   - 384       ( 8 x 48 )
      199
    - 192      ( 4 x 48 )
        73
      - 48     ( 1 x 48 )
Remainder --> 25
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 48 into 88 (= 1)
Multiply 1 times 48 (= 48)
Subtract 48 from 88 (= 40)
Bring down the 3

Divide 48 into 403 (= 8)
Multiply 8 times 48 (= 384)
Subtract 384 from 403 (= 19)
Bring down the 9

Divide 48 into 199 (= 4)
Multiply 4 times 48 (= 192)
Subtract 192 from 199 (= 7)
Bring down the 3

Divide 48 into 73 (= 1)
Multiply 1 times 48 (= 48)
Subtract 48 from 73 (= 25)
Done. No more numbers to bring down.

(2)

```
      907 R41
44 | 39949
   - 396       ( 9 x 44 )
       34
     - 0       ( 0 x 44 )
       349
     - 308     ( 7 x 44 )
Remainder --> 41
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 44 into 399 (= 9)
Multiply 9 times 44 (= 396)
Subtract 396 from 399 (= 3)
Bring down the 4

Divide 44 into 34 (= 0)
Multiply 0 times 44 (= 0)
Subtract 0 from 34 (= 34)
Bring down the 9

Divide 44 into 349 (= 7)
Multiply 7 times 44 (= 308)
Subtract 308 from 349 (= 41)
Done. No more numbers to bring down.

(3)

```
      168 R23
98 | 16487
   - 98        ( 1 x 98 )
     668
   - 588       ( 6 x 98 )
      807
    - 784      ( 8 x 98 )
Remainder --> 23
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 98 into 164 (= 1)
Multiply 1 times 98 (= 98)
Subtract 98 from 164 (= 66)
Bring down the 8

Divide 98 into 668 (= 6)
Multiply 6 times 98 (= 588)
Subtract 588 from 668 (= 80)
Bring down the 7

Divide 98 into 807 (= 8)
Multiply 8 times 98 (= 784)
Subtract 784 from 807 (= 23)
Done. No more numbers to bring down.