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)

73) 485379

(2)

11) 611016

(3)

82) 821915

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

(1)

```
              6649  R2
       ┌─────────────
   73  │  485379
       −  438          ( 6 x 73 )
         ─────
          473
       −  438          ( 6 x 73 )
         ─────
          357
       −  292          ( 4 x 73 )
         ─────
          659
       −  657          ( 9 x 73 )
         ─────
Remainder -->    2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 73 into 485 (= 6)
Multiply 6 times 73 (= 438)
Subtract 438 from 485 (= 47)
Bring down the 3

Divide 73 into 473 (= 6)
Multiply 6 times 73 (= 438)
Subtract 438 from 473 (= 35)
Bring down the 7

Divide 73 into 357 (= 4)
Multiply 4 times 73 (= 292)
Subtract 292 from 357 (= 65)
Bring down the 9

Divide 73 into 659 (= 9)
Multiply 9 times 73 (= 657)
Subtract 657 from 659 (= 2)
Done. No more numbers to bring down.

(2)

```
              55546  R10
       ┌─────────────
   11  │  611016
       −  55           ( 5 x 11 )
         ─────
          61
       −  55           ( 5 x 11 )
         ─────
          60
       −  55           ( 5 x 11 )
         ─────
          51
       −  44           ( 4 x 11 )
         ─────
          76
       −  66           ( 6 x 11 )
         ─────
Remainder -->   10
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 11 into 61 (= 5)
Multiply 5 times 11 (= 55)
Subtract 55 from 61 (= 6)
Bring down the 1

Divide 11 into 61 (= 5)
Multiply 5 times 11 (= 55)
Subtract 55 from 61 (= 6)
Bring down the 0

Divide 11 into 60 (= 5)
Multiply 5 times 11 (= 55)
Subtract 55 from 60 (= 5)
Bring down the 1

Divide 11 into 51 (= 4)
Multiply 4 times 11 (= 44)
Subtract 44 from 51 (= 7)
Bring down the 6

Divide 11 into 76 (= 6)
Multiply 6 times 11 (= 66)
Subtract 66 from 76 (= 10)
Done. No more numbers to bring down.

(3)

```
              10023  R29
       ┌─────────────
   82  │  821915
       −  82           ( 1 x 82 )
         ─────
          01
       −   0           ( 0 x 82 )
         ─────
          19
       −   0           ( 0 x 82 )
         ─────
          191
       −  164          ( 2 x 82 )
         ─────
          275
       −  246          ( 3 x 82 )
         ─────
Remainder -->   29
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 82 into 82 (= 1)
Multiply 1 times 82 (= 82)
Subtract 82 from 82 (= 0)
Bring down the 1

Divide 82 into 01 (= 0)
Multiply 0 times 82 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 9

Divide 82 into 19 (= 0)
Multiply 0 times 82 (= 0)
Subtract 0 from 19 (= 19)
Bring down the 1

Divide 82 into 191 (= 2)
Multiply 2 times 82 (= 164)
Subtract 164 from 191 (= 27)
Bring down the 5

Divide 82 into 275 (= 3)
Multiply 3 times 82 (= 246)
Subtract 246 from 275 (= 29)
Done. No more numbers to bring down.