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)

$$89 \overline{)4951746}$$

(2)

$$17 \overline{)6420614}$$

(3)

$$73 \overline{)4724148}$$

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

(1)

```
      55637 R53
  89 | 4951746
     - 445          ( 5 x 89 )
       501
     - 445          ( 5 x 89 )
       567
     - 534          ( 6 x 89 )
       334
     - 267          ( 3 x 89 )
       676
     - 623          ( 7 x 89 )
Remainder -->  53
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 89 into 495 (= 5)
Multiply 5 times 89 (= 445)
Subtract 445 from 495 (= 50)
Bring down the 1

Divide 89 into 501 (= 5)
Multiply 5 times 89 (= 445)
Subtract 445 from 501 (= 56)
Bring down the 7

Divide 89 into 567 (= 6)
Multiply 6 times 89 (= 534)
Subtract 534 from 567 (= 33)
Bring down the 4

Divide 89 into 334 (= 3)
Multiply 3 times 89 (= 267)
Subtract 267 from 334 (= 67)
Bring down the 6

Divide 89 into 676 (= 7)
Multiply 7 times 89 (= 623)
Subtract 623 from 676 (= 53)
Done. No more numbers to bring down.

(2)

```
      377683 R3
  17 | 6420614
     - 51           ( 3 x 17 )
       132
     - 119          ( 7 x 17 )
       130
     - 119          ( 7 x 17 )
       116
     - 102          ( 6 x 17 )
       141
     - 136          ( 8 x 17 )
         54
     - 51           ( 3 x 17 )
Remainder -->  3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 17 into 64 (= 3)
Multiply 3 times 17 (= 51)
Subtract 51 from 64 (= 13)
Bring down the 2

Divide 17 into 132 (= 7)
Multiply 7 times 17 (= 119)
Subtract 119 from 132 (= 13)
Bring down the 0

Divide 17 into 130 (= 7)
Multiply 7 times 17 (= 119)
Subtract 119 from 130 (= 11)
Bring down the 6

Divide 17 into 116 (= 6)
Multiply 6 times 17 (= 102)
Subtract 102 from 116 (= 14)
Bring down the 1

Divide 17 into 141 (= 8)
Multiply 8 times 17 (= 136)
Subtract 136 from 141 (= 5)
Bring down the 4

Divide 17 into 54 (= 3)
Multiply 3 times 17 (= 51)
Subtract 51 from 54 (= 3)
Done. No more numbers to bring down.

(3)

```
      64714 R26
  73 | 4724148
     - 438          ( 6 x 73 )
       344
     - 292          ( 4 x 73 )
       521
     - 511          ( 7 x 73 )
       104
     - 73           ( 1 x 73 )
       318
     - 292          ( 4 x 73 )
Remainder -->  26
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 73 into 472 (= 6)
Multiply 6 times 73 (= 438)
Subtract 438 from 472 (= 34)
Bring down the 4

Divide 73 into 344 (= 4)
Multiply 4 times 73 (= 292)
Subtract 292 from 344 (= 52)
Bring down the 1

Divide 73 into 521 (= 7)
Multiply 7 times 73 (= 511)
Subtract 511 from 521 (= 10)
Bring down the 4

Divide 73 into 104 (= 1)
Multiply 1 times 73 (= 73)
Subtract 73 from 104 (= 31)
Bring down the 8

Divide 73 into 318 (= 4)
Multiply 4 times 73 (= 292)
Subtract 292 from 318 (= 26)
Done. No more numbers to bring down.