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)

$$451 \overline{)626977}$$

(2)

$$529 \overline{)404574}$$

(3)

$$678 \overline{)431578}$$

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

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(1)

```
           1390 R87
   451 | 626977
      -  451          ( 1 x 451 )
         1759
      -  1353         ( 3 x 451 )
         4067
      -  4059         ( 9 x 451 )
           87
         -   0        ( 0 x 451 )
```
Remainder -->   87

Divide, Multiply, Subtract, Bring down, Repeat

Divide 451 into 626 (= 1)
Multiply 1 times 451 (= 451)
Subtract 451 from 626 (= 175)
Bring down the 9

Divide 451 into 1759 (= 3)
Multiply 3 times 451 (= 1353)
Subtract 1353 from 1759 (= 406)
Bring down the 7

Divide 451 into 4067 (= 9)
Multiply 9 times 451 (= 4059)
Subtract 4059 from 4067 (= 8)
Bring down the 7

Divide 451 into 87 (= 0)
Multiply 0 times 451 (= 0)
Subtract 0 from 87 (= 87)
Done. No more numbers to bring down.

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(2)

```
           764 R418
   529 | 404574
      -  3703         ( 7 x 529 )
         3427
      -  3174         ( 6 x 529 )
         2534
      -  2116         ( 4 x 529 )
           418
```
Remainder -->   418

Divide, Multiply, Subtract, Bring down, Repeat

Divide 529 into 4045 (= 7)
Multiply 7 times 529 (= 3703)
Subtract 3703 from 4045 (= 342)
Bring down the 7

Divide 529 into 3427 (= 6)
Multiply 6 times 529 (= 3174)
Subtract 3174 from 3427 (= 253)
Bring down the 4

Divide 529 into 2534 (= 4)
Multiply 4 times 529 (= 2116)
Subtract 2116 from 2534 (= 418)
Done. No more numbers to bring down.

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(3)

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           636 R370
   678 | 431578
      -  4068         ( 6 x 678 )
         2477
      -  2034         ( 3 x 678 )
         4438
      -  4068         ( 6 x 678 )
           370
```
Remainder -->   370

Divide, Multiply, Subtract, Bring down, Repeat

Divide 678 into 4315 (= 6)
Multiply 6 times 678 (= 4068)
Subtract 4068 from 4315 (= 247)
Bring down the 7

Divide 678 into 2477 (= 3)
Multiply 3 times 678 (= 2034)
Subtract 2034 from 2477 (= 443)
Bring down the 8

Divide 678 into 4438 (= 6)
Multiply 6 times 678 (= 4068)
Subtract 4068 from 4438 (= 370)
Done. No more numbers to bring down.