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)

683 | 6127221

(2)

578 | 3546393

(3)

483 | 7308069

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

(1)

```
          8971 R28
   683 | 6127221
       - 5464        ( 8 x 683 )
         6632
       - 6147        ( 9 x 683 )
          4852
        - 4781       ( 7 x 683 )
           711
         - 683       ( 1 x 683 )
           28
```

Remainder --> 28

Divide, Multiply, Subtract, Bring down, Repeat

Divide 683 into 6127 (= 8)
Multiply 8 times 683 (= 5464)
Subtract 5464 from 6127 (= 663)
Bring down the 2

Divide 683 into 6632 (= 9)
Multiply 9 times 683 (= 6147)
Subtract 6147 from 6632 (= 485)
Bring down the 2

Divide 683 into 4852 (= 7)
Multiply 7 times 683 (= 4781)
Subtract 4781 from 4852 (= 71)
Bring down the 1

Divide 683 into 711 (= 1)
Multiply 1 times 683 (= 683)
Subtract 683 from 711 (= 28)
Done. No more numbers to bring down.

(2)

```
          6135 R363
   578 | 3546393
       - 3468        ( 6 x 578 )
          783
        - 578        ( 1 x 578 )
          2059
        - 1734       ( 3 x 578 )
           3253
         - 2890      ( 5 x 578 )
           363
```

Remainder --> 363

Divide, Multiply, Subtract, Bring down, Repeat

Divide 578 into 3546 (= 6)
Multiply 6 times 578 (= 3468)
Subtract 3468 from 3546 (= 78)
Bring down the 3

Divide 578 into 783 (= 1)
Multiply 1 times 578 (= 578)
Subtract 578 from 783 (= 205)
Bring down the 9

Divide 578 into 2059 (= 3)
Multiply 3 times 578 (= 1734)
Subtract 1734 from 2059 (= 325)
Bring down the 3

Divide 578 into 3253 (= 5)
Multiply 5 times 578 (= 2890)
Subtract 2890 from 3253 (= 363)
Done. No more numbers to bring down.

(3)

```
          15130 R279
   483 | 7308069
       - 483         ( 1 x 483 )
          2478
        - 2415       ( 5 x 483 )
           630
         - 483       ( 1 x 483 )
           1476
         - 1449      ( 3 x 483 )
            279
          - 0        ( 0 x 483 )
            279
```

Remainder --> 279

Divide, Multiply, Subtract, Bring down, Repeat

Divide 483 into 730 (= 1)
Multiply 1 times 483 (= 483)
Subtract 483 from 730 (= 247)
Bring down the 8

Divide 483 into 2478 (= 5)
Multiply 5 times 483 (= 2415)
Subtract 2415 from 2478 (= 63)
Bring down the 0

Divide 483 into 630 (= 1)
Multiply 1 times 483 (= 483)
Subtract 483 from 630 (= 147)
Bring down the 6

Divide 483 into 1476 (= 3)
Multiply 3 times 483 (= 1449)
Subtract 1449 from 1476 (= 27)
Bring down the 9

Divide 483 into 279 (= 0)
Multiply 0 times 483 (= 0)
Subtract 0 from 279 (= 279)
Done. No more numbers to bring down.