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)

355 | 2783197

(2)

322 | 2469516

(3)

983 | 7259482

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

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

(1)

```
            7839 R352
     355 | 2783197
        -  2485        ( 7 x 355 )
           2981
        -  2840        ( 8 x 355 )
           1419
        -  1065        ( 3 x 355 )
           3547
        -  3195        ( 9 x 355 )
```
Remainder -->   352

Divide, Multiply, Subtract, Bring down, Repeat

Divide 355 into 2783 (= 7)
Multiply 7 times 355 (= 2485)
Subtract 2485 from 2783 (= 298)
Bring down the 1

Divide 355 into 2981 (= 8)
Multiply 8 times 355 (= 2840)
Subtract 2840 from 2981 (= 141)
Bring down the 9

Divide 355 into 1419 (= 3)
Multiply 3 times 355 (= 1065)
Subtract 1065 from 1419 (= 354)
Bring down the 7

Divide 355 into 3547 (= 9)
Multiply 9 times 355 (= 3195)
Subtract 3195 from 3547 (= 352)
Done. No more numbers to bring down.

(2)

```
            7669 R98
     322 | 2469516
        -  2254        ( 7 x 322 )
           2155
        -  1932        ( 6 x 322 )
           2231
        -  1932        ( 6 x 322 )
           2996
        -  2898        ( 9 x 322 )
```
Remainder -->   98

Divide, Multiply, Subtract, Bring down, Repeat

Divide 322 into 2469 (= 7)
Multiply 7 times 322 (= 2254)
Subtract 2254 from 2469 (= 215)
Bring down the 5

Divide 322 into 2155 (= 6)
Multiply 6 times 322 (= 1932)
Subtract 1932 from 2155 (= 223)
Bring down the 1

Divide 322 into 2231 (= 6)
Multiply 6 times 322 (= 1932)
Subtract 1932 from 2231 (= 299)
Bring down the 6

Divide 322 into 2996 (= 9)
Multiply 9 times 322 (= 2898)
Subtract 2898 from 2996 (= 98)
Done. No more numbers to bring down.

(3)

```
            7385 R27
     983 | 7259482
        -  6881        ( 7 x 983 )
           3784
        -  2949        ( 3 x 983 )
           8358
        -  7864        ( 8 x 983 )
           4942
        -  4915        ( 5 x 983 )
```
Remainder -->   27

Divide, Multiply, Subtract, Bring down, Repeat

Divide 983 into 7259 (= 7)
Multiply 7 times 983 (= 6881)
Subtract 6881 from 7259 (= 378)
Bring down the 4

Divide 983 into 3784 (= 3)
Multiply 3 times 983 (= 2949)
Subtract 2949 from 3784 (= 835)
Bring down the 8

Divide 983 into 8358 (= 8)
Multiply 8 times 983 (= 7864)
Subtract 7864 from 8358 (= 494)
Bring down the 2

Divide 983 into 4942 (= 5)
Multiply 5 times 983 (= 4915)
Subtract 4915 from 4942 (= 27)
Done. No more numbers to bring down.