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)

$3\overline{)9009049}$

(2)

$6\overline{)9892363}$

(3)

$6\overline{)8467090}$

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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)

```
   3003016 R1
3 | 9009049
  - 9          (3x3)
    00
  - 0          (0x3)
     00
   - 0         (0x3)
      09
    - 9        (3x3)
       00
     - 0       (0x3)
        04
      - 3      (1x3)
         19
       - 18    (6x3)
          1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 9 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 9 (= 0)
Bring down the 0

Divide 3 into 00 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 0

Divide 3 into 00 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 9

Divide 3 into 09 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 09 (= 0)
Bring down the 0

Divide 3 into 00 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 4

Divide 3 into 04 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 04 (= 1)
Bring down the 9

Divide 3 into 19 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 19 (= 1)
Done. No more numbers to bring down.

(2)

```
   1648727 R1
6 | 9892363
  - 6          (1x6)
    38
  - 36         (6x6)
     29
   - 24        (4x6)
      52
    - 48       (8x6)
       43
     - 42      (7x6)
        16
      - 12     (2x6)
         43
       - 42    (7x6)
          1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 9 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 9 (= 3)
Bring down the 8

Divide 6 into 38 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 38 (= 2)
Bring down the 9

Divide 6 into 29 (= 4)
Multiply 4 times 6 (= 24)
Subtract 24 from 29 (= 5)
Bring down the 2

Divide 6 into 52 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 52 (= 4)
Bring down the 3

Divide 6 into 43 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 43 (= 1)
Bring down the 6

Divide 6 into 16 (= 2)
Multiply 2 times 6 (= 12)
Subtract 12 from 16 (= 4)
Bring down the 3

Divide 6 into 43 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 43 (= 1)
Done. No more numbers to bring down.

(3)

```
   1411181 R4
6 | 8467090
  - 6          (1x6)
    24
  - 24         (4x6)
     06
   - 6         (1x6)
      07
    - 6        (1x6)
       10
     - 6       (1x6)
        49
      - 48     (8x6)
         10
       - 6     (1x6)
          4
```

Remainder --> 4

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 8 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 4

Divide 6 into 24 (= 4)
Multiply 4 times 6 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 6

Divide 6 into 06 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 06 (= 0)
Bring down the 7

Divide 6 into 07 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 07 (= 1)
Bring down the 0

Divide 6 into 10 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 10 (= 4)
Bring down the 9

Divide 6 into 49 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 49 (= 1)
Bring down the 0

Divide 6 into 10 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 10 (= 4)
Done. No more numbers to bring down.