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)

$4\overline{)3291719}$

(2)

$4\overline{)1989862}$

(3)

$4\overline{)4330734}$

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

(1)

```
    822929 R3
 4 | 3291719
 - 32          (8 x 4)
   09
  - 8          (2 x 4)
    11
   - 8         (2 x 4)
     37
   - 36        (9 x 4)
      11
     - 8       (2 x 4)
       39
     - 36      (9 x 4)
Remainder -->   3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 32 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 32 (= 0)
Bring down the 9

Divide 4 into 09 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 09 (= 1)
Bring down the 1

Divide 4 into 11 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 11 (= 3)
Bring down the 7

Divide 4 into 37 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 37 (= 1)
Bring down the 1

Divide 4 into 11 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 11 (= 3)
Bring down the 9

Divide 4 into 39 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 39 (= 3)
Done. No more numbers to bring down.

(2)

```
    497465 R2
 4 | 1989862
 - 16          (4 x 4)
   38
 - 36          (9 x 4)
    29
  - 28         (7 x 4)
     18
   - 16        (4 x 4)
      26
    - 24       (6 x 4)
       22
     - 20      (5 x 4)
Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 19 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 19 (= 3)
Bring down the 8

Divide 4 into 38 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 38 (= 2)
Bring down the 9

Divide 4 into 29 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 29 (= 1)
Bring down the 8

Divide 4 into 18 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 18 (= 2)
Bring down the 6

Divide 4 into 26 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 26 (= 2)
Bring down the 2

Divide 4 into 22 (= 5)
Multiply 5 times 4 (= 20)
Subtract 20 from 22 (= 2)
Done. No more numbers to bring down.

(3)

```
    1082683 R2
 4 | 4330734
 - 4           (1 x 4)
   03
  - 0          (0 x 4)
    33
  - 32         (8 x 4)
     10
    - 8        (2 x 4)
      27
    - 24       (6 x 4)
       33
     - 32      (8 x 4)
        14
      - 12     (3 x 4)
Remainder -->    2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 4 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 4 (= 0)
Bring down the 3

Divide 4 into 03 (= 0)
Multiply 0 times 4 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 3

Divide 4 into 33 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 33 (= 1)
Bring down the 0

Divide 4 into 10 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 10 (= 2)
Bring down the 7

Divide 4 into 27 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 27 (= 3)
Bring down the 3

Divide 4 into 33 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 33 (= 1)
Bring down the 4

Divide 4 into 14 (= 3)
Multiply 3 times 4 (= 12)
Subtract 12 from 14 (= 2)
Done. No more numbers to bring down.