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)

$$4\overline{)6440915}$$

(2)

$$4\overline{)6499056}$$

(3)

$$4\overline{)8859992}$$

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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)

```
   1610228 R3
4 | 6440915
  - 4          ( 1 x 4 )
    24
  - 24         ( 6 x 4 )
     04
   - 4         ( 1 x 4 )
     00
    - 0        ( 0 x 4 )
      09
     - 8       ( 2 x 4 )
       11
      - 8      ( 2 x 4 )
        35
       - 32    ( 8 x 4 )
         3
```

Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

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

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

Divide 4 into 04 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 04 (= 0)
Bring down the 0

Divide 4 into 00 (= 0)
Multiply 0 times 4 (= 0)
Subtract 0 from 00 (= 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 5

Divide 4 into 35 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 35 (= 3)
Done. No more numbers to bring down.

(2)

```
   1624764 R0
4 | 6499056
  - 4          ( 1 x 4 )
    24
  - 24         ( 6 x 4 )
     09
   - 8         ( 2 x 4 )
     19
   - 16        ( 4 x 4 )
     30
   - 28        ( 7 x 4 )
     25
   - 24        ( 6 x 4 )
     16
   - 16        ( 4 x 4 )
      0
```

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 4 into 24 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 9

Divide 4 into 09 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 09 (= 1)
Bring down the 9

Divide 4 into 19 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 19 (= 3)
Bring down the 0

Divide 4 into 30 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 30 (= 2)
Bring down the 5

Divide 4 into 25 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 25 (= 1)
Bring down the 6

Divide 4 into 16 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 16 (= 0)
Done. No more numbers to bring down.

(3)

```
   2214998 R0
4 | 8859992
  - 8          ( 2 x 4 )
    08
  - 8          ( 2 x 4 )
     05
   - 4         ( 1 x 4 )
     19
   - 16        ( 4 x 4 )
     39
   - 36        ( 9 x 4 )
     39
   - 36        ( 9 x 4 )
     32
   - 32        ( 8 x 4 )
      0
```

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 8 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 8 (= 0)
Bring down the 8

Divide 4 into 08 (= 2)
Multiply 2 times 4 (= 8)
Subtract 8 from 08 (= 0)
Bring down the 5

Divide 4 into 05 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 05 (= 1)
Bring down the 9

Divide 4 into 19 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 19 (= 3)
Bring down the 9

Divide 4 into 39 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 39 (= 3)
Bring down the 9

Divide 4 into 39 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 39 (= 3)
Bring down the 2

Divide 4 into 32 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 32 (= 0)
Done. No more numbers to bring down.