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)

$$6\overline{)4021861}$$

(2)

$$2\overline{)7200398}$$

(3)

$$7\overline{)6801673}$$

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

(1)

```
      670310 R1
    ________
  6 | 4021861
  - 36          ( 6 x 6 )
     42
   - 42         ( 7 x 6 )
      01
    - 0         ( 0 x 6 )
       18
     - 18       ( 3 x 6 )
        06
      - 6       ( 1 x 6 )
         01
       - 0      ( 0 x 6 )
Remainder -->     1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 40 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 40 (= 4)
Bring down the 2

Divide 6 into 42 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 42 (= 0)
Bring down the 1

Divide 6 into 01 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 8

Divide 6 into 18 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 18 (= 0)
Bring down the 6

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

Divide 6 into 01 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 01 (= 1)
Done. No more numbers to bring down.

(2)

```
      3600199 R0
    _________
  2 | 7200398
  - 6           ( 3 x 2 )
    12
  - 12          ( 6 x 2 )
     00
    - 0         ( 0 x 2 )
      00
     - 0        ( 0 x 2 )
       03
      - 2       ( 1 x 2 )
        19
      - 18      ( 9 x 2 )
         18
       - 18     ( 9 x 2 )
Remainder -->     0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 7 (= 3)
Multiply 3 times 2 (= 6)
Subtract 6 from 7 (= 1)
Bring down the 2

Divide 2 into 12 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 12 (= 0)
Bring down the 0

Divide 2 into 00 (= 0)
Multiply 0 times 2 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 0

Divide 2 into 00 (= 0)
Multiply 0 times 2 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 3

Divide 2 into 03 (= 1)
Multiply 1 times 2 (= 2)
Subtract 2 from 03 (= 1)
Bring down the 9

Divide 2 into 19 (= 9)
Multiply 9 times 2 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 8

Divide 2 into 18 (= 9)
Multiply 9 times 2 (= 18)
Subtract 18 from 18 (= 0)
Done. No more numbers to bring down.

(3)

```
      971667 R4
    ________
  7 | 6801673
  - 63          ( 9 x 7 )
     50
   - 49         ( 7 x 7 )
      11
    - 7         ( 1 x 7 )
       46
     - 42       ( 6 x 7 )
        47
      - 42      ( 6 x 7 )
         53
       - 49     ( 7 x 7 )
Remainder -->     4
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 68 (= 9)
Multiply 9 times 7 (= 63)
Subtract 63 from 68 (= 5)
Bring down the 0

Divide 7 into 50 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 50 (= 1)
Bring down the 1

Divide 7 into 11 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 11 (= 4)
Bring down the 6

Divide 7 into 46 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 46 (= 4)
Bring down the 7

Divide 7 into 47 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 47 (= 5)
Bring down the 3

Divide 7 into 53 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 53 (= 4)
Done. No more numbers to bring down.