# 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)

7 | 431935

(2)

8 | 141274

(3)

7 | 679002

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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)**

```
              61705 R0
      _____
    7 | 431935
      -  42            ( 6 x 7 )
      _____
         11
       -  7            ( 1 x 7 )
       _____
          49
       -  49           ( 7 x 7 )
       _____
          03
        -  0           ( 0 x 7 )
        _____
           35
         -  35         ( 5 x 7 )
         _____
Remainder -->   0
```

**(2)**

```
              17659 R2
      _____
    8 | 141274
      -  8             ( 1 x 8 )
      _____
         61
       -  56           ( 7 x 8 )
       _____
          52
        -  48          ( 6 x 8 )
        _____
           47
         -  40         ( 5 x 8 )
         _____
            74
          -  72        ( 9 x 8 )
          _____
Remainder -->    2
```

**(3)**

```
              97000 R2
      _____
    7 | 679002
      -  63            ( 9 x 7 )
      _____
         49
       -  49           ( 7 x 7 )
       _____
          00
        -  0           ( 0 x 7 )
        _____
           00
         -  0          ( 0 x 7 )
         _____
            02
          -  0         ( 0 x 7 )
          _____
Remainder -->    2
```

**(1)**

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 7 into 11 ( = 1 )
Multiply 1 times 7 ( = 7 )
Subtract 7 from 11 ( = 4 )
Bring down the 9

Divide 7 into 49 ( = 7 )
Multiply 7 times 7 ( = 49 )
Subtract 49 from 49 ( = 0 )
Bring down the 3

Divide 7 into 03 ( = 0 )
Multiply 0 times 7 ( = 0 )
Subtract 0 from 03 ( = 3 )
Bring down the 5

Divide 7 into 35 ( = 5 )
Multiply 5 times 7 ( = 35 )
Subtract 35 from 35 ( = 0 )
Done. No more numbers to bring down.

**(2)**

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 14 ( = 1 )
Multiply 1 times 8 ( = 8 )
Subtract 8 from 14 ( = 6 )
Bring down the 1

Divide 8 into 61 ( = 7 )
Multiply 7 times 8 ( = 56 )
Subtract 56 from 61 ( = 5 )
Bring down the 2

Divide 8 into 52 ( = 6 )
Multiply 6 times 8 ( = 48 )
Subtract 48 from 52 ( = 4 )
Bring down the 7

Divide 8 into 47 ( = 5 )
Multiply 5 times 8 ( = 40 )
Subtract 40 from 47 ( = 7 )
Bring down the 4

Divide 8 into 74 ( = 9 )
Multiply 9 times 8 ( = 72 )
Subtract 72 from 74 ( = 2 )
Done. No more numbers to bring down.

**(3)**

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 67 ( = 9 )
Multiply 9 times 7 ( = 63 )
Subtract 63 from 67 ( = 4 )
Bring down the 9

Divide 7 into 49 ( = 7 )
Multiply 7 times 7 ( = 49 )
Subtract 49 from 49 ( = 0 )
Bring down the 0

Divide 7 into 00 ( = 0 )
Multiply 0 times 7 ( = 0 )
Subtract 0 from 00 ( = 0 )
Bring down the 0

Divide 7 into 00 ( = 0 )
Multiply 0 times 7 ( = 0 )
Subtract 0 from 00 ( = 0 )
Bring down the 2

Divide 7 into 02 ( = 0 )
Multiply 0 times 7 ( = 0 )
Subtract 0 from 02 ( = 2 )
Done. No more numbers to bring down.