# 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)

$$2\overline{)8706}$$

(2)

$$3\overline{)3665}$$

(3)

$$2\overline{)8561}$$

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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)**

```
        4353 R0
   2 | 8706
      - 8            ( 4 x 2 )
        07
       - 6           ( 3 x 2 )
        10
      - 10           ( 5 x 2 )
        06
       - 6           ( 3 x 2 )
```
*Remainder -->*     0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 8 ( = 4 )
Multiply 4 times 2 ( = 8 )
Subtract 8 from 8 ( = 0 )
Bring down the 7

Divide 2 into 07 ( = 3 )
Multiply 3 times 2 ( = 6 )
Subtract 6 from 07 ( = 1 )
Bring down the 0

Divide 2 into 10 ( = 5 )
Multiply 5 times 2 ( = 10 )
Subtract 10 from 10 ( = 0 )
Bring down the 6

Divide 2 into 06 ( = 3 )
Multiply 3 times 2 ( = 6 )
Subtract 6 from 06 ( = 0 )
Done. No more numbers to bring down.

**(2)**

```
        1221 R2
   3 | 3665
      - 3            ( 1 x 3 )
        06
       - 6           ( 2 x 3 )
        06
       - 6           ( 2 x 3 )
        05
       - 3           ( 1 x 3 )
```
*Remainder -->*     2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 3 ( = 1 )
Multiply 1 times 3 ( = 3 )
Subtract 3 from 3 ( = 0 )
Bring down the 6

Divide 3 into 06 ( = 2 )
Multiply 2 times 3 ( = 6 )
Subtract 6 from 06 ( = 0 )
Bring down the 6

Divide 3 into 06 ( = 2 )
Multiply 2 times 3 ( = 6 )
Subtract 6 from 06 ( = 0 )
Bring down the 5

Divide 3 into 05 ( = 1 )
Multiply 1 times 3 ( = 3 )
Subtract 3 from 05 ( = 2 )
Done. No more numbers to bring down.

**(3)**

```
        4280 R1
   2 | 8561
      - 8            ( 4 x 2 )
        05
       - 4           ( 2 x 2 )
        16
      - 16           ( 8 x 2 )
        01
       - 0           ( 0 x 2 )
```
*Remainder -->*     1

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 2 into 05 ( = 2 )
Multiply 2 times 2 ( = 4 )
Subtract 4 from 05 ( = 1 )
Bring down the 6

Divide 2 into 16 ( = 8 )
Multiply 8 times 2 ( = 16 )
Subtract 16 from 16 ( = 0 )
Bring down the 1

Divide 2 into 01 ( = 0 )
Multiply 0 times 2 ( = 0 )
Subtract 0 from 01 ( = 1 )
Done. No more numbers to bring down.