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)

$$6\overline{)539}$$

(2)

$$2\overline{)492}$$

(3)

$$2\overline{)765}$$

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

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(1)

```
        89 R5
    _____
  6 | 539
      - 48          ( 8 x 6 )
      _____
        59
      - 54          ( 9 x 6 )
      _____
Remainder -->  5
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 53 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 53 (= 5)
Bring down the 9

Divide 6 into 59 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 59 (= 5)
Done. No more numbers to bring down.

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(2)

```
        246 R0
    _____
  2 | 492
      - 4           ( 2 x 2 )
      _____
        09
      - 8           ( 4 x 2 )
      _____
        12
      - 12          ( 6 x 2 )
      _____
Remainder -->   0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 4 (= 2)
Multiply 2 times 2 (= 4)
Subtract 4 from 4 (= 0)
Bring down the 9

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

Divide 2 into 12 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 12 (= 0)
Done. No more numbers to bring down.

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(3)

```
        382 R1
    _____
  2 | 765
      - 6           ( 3 x 2 )
      _____
        16
      - 16          ( 8 x 2 )
      _____
        05
      - 4           ( 2 x 2 )
      _____
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 2 into 16 (= 8)
Multiply 8 times 2 (= 16)
Subtract 16 from 16 (= 0)
Bring down the 5

Divide 2 into 05 (= 2)
Multiply 2 times 2 (= 4)
Subtract 4 from 05 (= 1)
Done. No more numbers to bring down.