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)

$7\overline{)129}$

(2)

$9\overline{)798}$

(3)

$2\overline{)108}$

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

(1)

```
    18 R3
   ______
7 | 129
  - 7        ( 1 x 7 )
   ---
    59
  - 56       ( 8 x 7 )
   ---
     3
```

Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 12 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 12 (= 5)
Bring down the 9

Divide 7 into 59 (= 8)
Multiply 8 times 7 (= 56)
Subtract 56 from 59 (= 3)
Done. No more numbers to bring down.

(2)

```
    88 R6
   ______
9 | 798
  - 72       ( 8 x 9 )
   ---
    78
  - 72       ( 8 x 9 )
   ---
     6
```

Remainder --> 6

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 79 (= 8)
Multiply 8 times 9 (= 72)
Subtract 72 from 79 (= 7)
Bring down the 8

Divide 9 into 78 (= 8)
Multiply 8 times 9 (= 72)
Subtract 72 from 78 (= 6)
Done. No more numbers to bring down.

(3)

```
    54 R0
   ______
2 | 108
  - 10       ( 5 x 2 )
   ---
    08
  - 8        ( 4 x 2 )
   ---
     0
```

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 10 (= 5)
Multiply 5 times 2 (= 10)
Subtract 10 from 10 (= 0)
Bring down the 8

Divide 2 into 08 (= 4)
Multiply 4 times 2 (= 8)
Subtract 8 from 08 (= 0)
Done. No more numbers to bring down.