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)

$$9 \overline{)944}$$

(2)

$$9 \overline{)755}$$

(3)

$$6 \overline{)860}$$

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

(1)

```
        104  R8
   9 |  944
      -  9           ( 1 x 9 )
        04
      -  0           ( 0 x 9 )
        44
      - 36           ( 4 x 9 )
```
Remainder -->   8

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 9 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 9 (= 0)
Bring down the 4

Divide 9 into 04 (= 0)
Multiply 0 times 9 (= 0)
Subtract 0 from 04 (= 4)
Bring down the 4

Divide 9 into 44 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 44 (= 8)
Done. No more numbers to bring down.

(2)

```
        83  R8
   9 |  755
      - 72           ( 8 x 9 )
        35
      - 27           ( 3 x 9 )
```
Remainder -->   8

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 75 (= 8)
Multiply 8 times 9 (= 72)
Subtract 72 from 75 (= 3)
Bring down the 5

Divide 9 into 35 (= 3)
Multiply 3 times 9 (= 27)
Subtract 27 from 35 (= 8)
Done. No more numbers to bring down.

(3)

```
        143  R2
   6 |  860
      -  6           ( 1 x 6 )
        26
      - 24           ( 4 x 6 )
        20
      - 18           ( 3 x 6 )
```
Remainder -->   2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 8 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 6

Divide 6 into 26 (= 4)
Multiply 4 times 6 (= 24)
Subtract 24 from 26 (= 2)
Bring down the 0

Divide 6 into 20 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 20 (= 2)
Done. No more numbers to bring down.