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)

$$900 \overline{)15946}$$

(2)

$$817 \overline{)89341}$$

(3)

$$253 \overline{)46213}$$

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

(1)

```
          17 R646
900 | 15946
    -  900          ( 1 x 900 )
       6946
    -  6300         ( 7 x 900 )
Remainder -->  646
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 900 into 1594 (= 1)
Multiply 1 times 900 (= 900)
Subtract 900 from 1594 (= 694)
Bring down the 6

Divide 900 into 6946 (= 7)
Multiply 7 times 900 (= 6300)
Subtract 6300 from 6946 (= 646)
Done. No more numbers to bring down.

(2)

```
          109 R288
817 | 89341
    -  817          ( 1 x 817 )
       764
       -  0         ( 0 x 817 )
       7641
    -  7353         ( 9 x 817 )
Remainder -->  288
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 817 into 893 (= 1)
Multiply 1 times 817 (= 817)
Subtract 817 from 893 (= 76)
Bring down the 4

Divide 817 into 764 (= 0)
Multiply 0 times 817 (= 0)
Subtract 0 from 764 (= 764)
Bring down the 1

Divide 817 into 7641 (= 9)
Multiply 9 times 817 (= 7353)
Subtract 7353 from 7641 (= 288)
Done. No more numbers to bring down.

(3)

```
          182 R167
253 | 46213
    -  253          ( 1 x 253 )
       2091
    -  2024         ( 8 x 253 )
        673
      -  506        ( 2 x 253 )
Remainder -->  167
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 253 into 462 (= 1)
Multiply 1 times 253 (= 253)
Subtract 253 from 462 (= 209)
Bring down the 1

Divide 253 into 2091 (= 8)
Multiply 8 times 253 (= 2024)
Subtract 2024 from 2091 (= 67)
Bring down the 3

Divide 253 into 673 (= 2)
Multiply 2 times 253 (= 506)
Subtract 506 from 673 (= 167)
Done. No more numbers to bring down.