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)

$$37 \overline{)6343}$$

(2)

$$86 \overline{)5002}$$

(3)

$$27 \overline{)7946}$$

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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)

```
            171  R16
   37 | 6343
      -  37           ( 1 x 37 )
         264
      -  259          ( 7 x 37 )
          53
      -   37          ( 1 x 37 )
          16
```
Remainder --> 16

Divide, Multiply, Subtract, Bring down, Repeat

Divide 37 into 63 (= 1)
Multiply 1 times 37 (= 37)
Subtract 37 from 63 (= 26)
Bring down the 4

Divide 37 into 264 (= 7)
Multiply 7 times 37 (= 259)
Subtract 259 from 264 (= 5)
Bring down the 3

Divide 37 into 53 (= 1)
Multiply 1 times 37 (= 37)
Subtract 37 from 53 (= 16)
Done. No more numbers to bring down.

(2)

```
            58  R14
   86 | 5002
      -  430           ( 5 x 86 )
         702
      -  688           ( 8 x 86 )
          14
```
Remainder --> 14

Divide, Multiply, Subtract, Bring down, Repeat

Divide 86 into 500 (= 5)
Multiply 5 times 86 (= 430)
Subtract 430 from 500 (= 70)
Bring down the 2

Divide 86 into 702 (= 8)
Multiply 8 times 86 (= 688)
Subtract 688 from 702 (= 14)
Done. No more numbers to bring down.

(3)

```
            294  R8
   27 | 7946
      -  54            ( 2 x 27 )
         254
      -  243           ( 9 x 27 )
         116
      -  108           ( 4 x 27 )
           8
```
Remainder --> 8

Divide, Multiply, Subtract, Bring down, Repeat

Divide 27 into 79 (= 2)
Multiply 2 times 27 (= 54)
Subtract 54 from 79 (= 25)
Bring down the 4

Divide 27 into 254 (= 9)
Multiply 9 times 27 (= 243)
Subtract 243 from 254 (= 11)
Bring down the 6

Divide 27 into 116 (= 4)
Multiply 4 times 27 (= 108)
Subtract 108 from 116 (= 8)
Done. No more numbers to bring down.