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)

654 | 17000

(2)

734 | 87503

(3)

944 | 54072

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

(1)

```
            25 R650
      ┌──────────
654   │  17000
      −  1308          ( 2 x 654 )
         ─────
         3920
      −  3270          ( 5 x 654 )
         ─────
Remainder -->   650
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 654 into 1700 (= 2)
Multiply 2 times 654 (= 1308)
Subtract 1308 from 1700 (= 392)
Bring down the 0

Divide 654 into 3920 (= 5)
Multiply 5 times 654 (= 3270)
Subtract 3270 from 3920 (= 650)
Done. No more numbers to bring down.

(2)

```
            119 R157
      ┌──────────
734   │  87503
      −   734          ( 1 x 734 )
         ─────
         1410
      −   734          ( 1 x 734 )
         ─────
         6763
      −  6606          ( 9 x 734 )
         ─────
Remainder -->   157
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 734 into 875 (= 1)
Multiply 1 times 734 (= 734)
Subtract 734 from 875 (= 141)
Bring down the 0

Divide 734 into 1410 (= 1)
Multiply 1 times 734 (= 734)
Subtract 734 from 1410 (= 676)
Bring down the 3

Divide 734 into 6763 (= 9)
Multiply 9 times 734 (= 6606)
Subtract 6606 from 6763 (= 157)
Done. No more numbers to bring down.

(3)

```
            57 R264
      ┌──────────
944   │  54072
      −  4720          ( 5 x 944 )
         ─────
         6872
      −  6608          ( 7 x 944 )
         ─────
Remainder -->   264
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 944 into 5407 (= 5)
Multiply 5 times 944 (= 4720)
Subtract 4720 from 5407 (= 687)
Bring down the 2

Divide 944 into 6872 (= 7)
Multiply 7 times 944 (= 6608)
Subtract 6608 from 6872 (= 264)
Done. No more numbers to bring down.