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)

$793\overline{)7938}$

(2)

$627\overline{)6882}$

(3)

$544\overline{)1302}$

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

(1)

```
          10 R8
     _____
793 | 7938
    -  793        ( 1 x 793 )
       ____
         08
       -  0        ( 0 x 793 )
       ____
          8
```
Remainder -->　8

Divide, Multiply, Subtract, Bring down, Repeat

Divide 793 into 793 (= 1)
Multiply 1 times 793 (= 793)
Subtract 793 from 793 (= 0)
Bring down the 8

Divide 793 into 08 (= 0)
Multiply 0 times 793 (= 0)
Subtract 0 from 08 (= 8)
Done. No more numbers to bring down.

(2)

```
          10 R612
     _____
627 | 6882
    -  627        ( 1 x 627 )
       ____
        612
       -  0        ( 0 x 627 )
       ____
        612
```
Remainder -->　612

Divide, Multiply, Subtract, Bring down, Repeat

Divide 627 into 688 (= 1)
Multiply 1 times 627 (= 627)
Subtract 627 from 688 (= 61)
Bring down the 2

Divide 627 into 612 (= 0)
Multiply 0 times 627 (= 0)
Subtract 0 from 612 (= 612)
Done. No more numbers to bring down.

(3)

```
           2 R214
     _____
544 | 1302
    -  1088        ( 2 x 544 )
       ____
         214
```
Remainder -->　214

Divide, Multiply, Subtract, Bring down, Repeat

Divide 544 into 1302 (= 2)
Multiply 2 times 544 (= 1088)
Subtract 1088 from 1302 (= 214)
Done. No more numbers to bring down.