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)

$66\overline{)3809}$

(2)

$66\overline{)1638}$

(3)

$12\overline{)8593}$

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

(1)

```
      57 R47
   ___________
66 | 3809
   - 330        ( 5 x 66 )
   -----
     509
   - 462        ( 7 x 66 )
   -----
      47
```

Remainder --> 47

Divide, Multiply, Subtract, Bring down, Repeat

Divide 66 into 380 (= 5)
Multiply 5 times 66 (= 330)
Subtract 330 from 380 (= 50)
Bring down the 9

Divide 66 into 509 (= 7)
Multiply 7 times 66 (= 462)
Subtract 462 from 509 (= 47)
Done. No more numbers to bring down.

(2)

```
      24 R54
   ___________
66 | 1638
   - 132        ( 2 x 66 )
   -----
     318
   - 264        ( 4 x 66 )
   -----
      54
```

Remainder --> 54

Divide, Multiply, Subtract, Bring down, Repeat

Divide 66 into 163 (= 2)
Multiply 2 times 66 (= 132)
Subtract 132 from 163 (= 31)
Bring down the 8

Divide 66 into 318 (= 4)
Multiply 4 times 66 (= 264)
Subtract 264 from 318 (= 54)
Done. No more numbers to bring down.

(3)

```
      716 R1
   ___________
12 | 8593
   - 84         ( 7 x 12 )
   -----
      19
   - 12         ( 1 x 12 )
   -----
      73
   - 72         ( 6 x 12 )
   -----
       1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 12 into 85 (= 7)
Multiply 7 times 12 (= 84)
Subtract 84 from 85 (= 1)
Bring down the 9

Divide 12 into 19 (= 1)
Multiply 1 times 12 (= 12)
Subtract 12 from 19 (= 7)
Bring down the 3

Divide 12 into 73 (= 6)
Multiply 6 times 12 (= 72)
Subtract 72 from 73 (= 1)
Done. No more numbers to bring down.