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)

$$654 \overline{)3534}$$

(2)

$$338 \overline{)5424}$$

(3)

$$511 \overline{)9844}$$

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

(1)

```
          5 R264
    654 | 3534
        - 3270      ( 5 x 654 )
Remainder -->  264
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 654 into 3534 (= 5)
Multiply 5 times 654 (= 3270)
Subtract 3270 from 3534 (= 264)
Done. No more numbers to bring down.

(2)

```
          16 R16
   338 | 5424
       - 338      ( 1 x 338 )
         2044
       - 2028     ( 6 x 338 )
Remainder -->  16
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 338 into 542 (= 1)
Multiply 1 times 338 (= 338)
Subtract 338 from 542 (= 204)
Bring down the 4

Divide 338 into 2044 (= 6)
Multiply 6 times 338 (= 2028)
Subtract 2028 from 2044 (= 16)
Done. No more numbers to bring down.

(3)

```
          19 R135
   511 | 9844
       - 511      ( 1 x 511 )
         4734
       - 4599     ( 9 x 511 )
Remainder -->  135
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 511 into 984 (= 1)
Multiply 1 times 511 (= 511)
Subtract 511 from 984 (= 473)
Bring down the 4

Divide 511 into 4734 (= 9)
Multiply 9 times 511 (= 4599)
Subtract 4599 from 4734 (= 135)
Done. No more numbers to bring down.