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)

$3\overline{)595}$

(2)

$3\overline{)536}$

(3)

$8\overline{)637}$

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

(1)

```
      198 R1
   ---------
3 | 595
    - 3          ( 1 x 3 )
   ----
      29
    - 27         ( 9 x 3 )
   ----
       25
     - 24        ( 8 x 3 )
   ----
        1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 5 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 5 (= 2)
Bring down the 9

Divide 3 into 29 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 29 (= 2)
Bring down the 5

Divide 3 into 25 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 25 (= 1)
Done. No more numbers to bring down.

(2)

```
      178 R2
   ---------
3 | 536
    - 3          ( 1 x 3 )
   ----
      23
    - 21         ( 7 x 3 )
   ----
       26
     - 24        ( 8 x 3 )
   ----
        2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 5 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 5 (= 2)
Bring down the 3

Divide 3 into 23 (= 7)
Multiply 7 times 3 (= 21)
Subtract 21 from 23 (= 2)
Bring down the 6

Divide 3 into 26 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 26 (= 2)
Done. No more numbers to bring down.

(3)

```
      79 R5
   ---------
8 | 637
    - 56         ( 7 x 8 )
   ----
      77
    - 72         ( 9 x 8 )
   ----
        5
```

Remainder --> 5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 63 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 63 (= 7)
Bring down the 7

Divide 8 into 77 (= 9)
Multiply 9 times 8 (= 72)
Subtract 72 from 77 (= 5)
Done. No more numbers to bring down.