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)

$$863 \overline{)6334135}$$

(2)

$$543 \overline{)5565498}$$

(3)

$$448 \overline{)5327915}$$

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

(1)

```
          7339 R578
   863 | 6334135
       - 6041        ( 7 x 863 )
         2931
       - 2589        ( 3 x 863 )
         3423
       - 2589        ( 3 x 863 )
         8345
       - 7767        ( 9 x 863 )
Remainder -->  578
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 863 into 6334 (= 7)
Multiply 7 times 863 (= 6041)
Subtract 6041 from 6334 (= 293)
Bring down the 1

Divide 863 into 2931 (= 3)
Multiply 3 times 863 (= 2589)
Subtract 2589 from 2931 (= 342)
Bring down the 3

Divide 863 into 3423 (= 3)
Multiply 3 times 863 (= 2589)
Subtract 2589 from 3423 (= 834)
Bring down the 5

Divide 863 into 8345 (= 9)
Multiply 9 times 863 (= 7767)
Subtract 7767 from 8345 (= 578)
Done. No more numbers to bring down.

(2)

```
          10249 R291
   543 | 5565498
       - 543         ( 1 x 543 )
         135
       - 0           ( 0 x 543 )
         1354
       - 1086        ( 2 x 543 )
         2689
       - 2172        ( 4 x 543 )
         5178
       - 4887        ( 9 x 543 )
Remainder -->  291
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 543 into 556 (= 1)
Multiply 1 times 543 (= 543)
Subtract 543 from 556 (= 13)
Bring down the 5

Divide 543 into 135 (= 0)
Multiply 0 times 543 (= 0)
Subtract 0 from 135 (= 135)
Bring down the 4

Divide 543 into 1354 (= 2)
Multiply 2 times 543 (= 1086)
Subtract 1086 from 1354 (= 268)
Bring down the 9

Divide 543 into 2689 (= 4)
Multiply 4 times 543 (= 2172)
Subtract 2172 from 2689 (= 517)
Bring down the 8

Divide 543 into 5178 (= 9)
Multiply 9 times 543 (= 4887)
Subtract 4887 from 5178 (= 291)
Done. No more numbers to bring down.

(3)

```
          11892 R299
   448 | 5327915
       - 448         ( 1 x 448 )
         847
       - 448         ( 1 x 448 )
         3999
       - 3584        ( 8 x 448 )
         4151
       - 4032        ( 9 x 448 )
         1195
       - 896         ( 2 x 448 )
Remainder -->  299
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 448 into 532 (= 1)
Multiply 1 times 448 (= 448)
Subtract 448 from 532 (= 84)
Bring down the 7

Divide 448 into 847 (= 1)
Multiply 1 times 448 (= 448)
Subtract 448 from 847 (= 399)
Bring down the 9

Divide 448 into 3999 (= 8)
Multiply 8 times 448 (= 3584)
Subtract 3584 from 3999 (= 415)
Bring down the 1

Divide 448 into 4151 (= 9)
Multiply 9 times 448 (= 4032)
Subtract 4032 from 4151 (= 119)
Bring down the 5

Divide 448 into 1195 (= 2)
Multiply 2 times 448 (= 896)
Subtract 896 from 1195 (= 299)
Done. No more numbers to bring down.