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)

$$26\overline{)85935}$$

(2)

$$26\overline{)40975}$$

(3)

$$89\overline{)36561}$$

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

(1)

```
      3305 R5
   ___________
26 | 85935
   - 78          ( 3 x 26 )
     ---
     79
   - 78          ( 3 x 26 )
     ---
     13
   -  0          ( 0 x 26 )
     ---
     135
   - 130         ( 5 x 26 )
     ---
       5
```

Remainder --> 5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 26 into 85 (= 3)
Multiply 3 times 26 (= 78)
Subtract 78 from 85 (= 7)
Bring down the 9

Divide 26 into 79 (= 3)
Multiply 3 times 26 (= 78)
Subtract 78 from 79 (= 1)
Bring down the 3

Divide 26 into 13 (= 0)
Multiply 0 times 26 (= 0)
Subtract 0 from 13 (= 13)
Bring down the 5

Divide 26 into 135 (= 5)
Multiply 5 times 26 (= 130)
Subtract 130 from 135 (= 5)
Done. No more numbers to bring down.

(2)

```
      1575 R25
   ___________
26 | 40975
   - 26          ( 1 x 26 )
     ---
     149
   - 130         ( 5 x 26 )
     ---
     197
   - 182         ( 7 x 26 )
     ---
     155
   - 130         ( 5 x 26 )
     ---
      25
```

Remainder --> 25

Divide, Multiply, Subtract, Bring down, Repeat

Divide 26 into 40 (= 1)
Multiply 1 times 26 (= 26)
Subtract 26 from 40 (= 14)
Bring down the 9

Divide 26 into 149 (= 5)
Multiply 5 times 26 (= 130)
Subtract 130 from 149 (= 19)
Bring down the 7

Divide 26 into 197 (= 7)
Multiply 7 times 26 (= 182)
Subtract 182 from 197 (= 15)
Bring down the 5

Divide 26 into 155 (= 5)
Multiply 5 times 26 (= 130)
Subtract 130 from 155 (= 25)
Done. No more numbers to bring down.

(3)

```
      410 R71
   ___________
89 | 36561
   - 356         ( 4 x 89 )
     ---
     96
   -  89         ( 1 x 89 )
     ---
     71
   -   0         ( 0 x 89 )
     ---
      71
```

Remainder --> 71

Divide, Multiply, Subtract, Bring down, Repeat

Divide 89 into 365 (= 4)
Multiply 4 times 89 (= 356)
Subtract 356 from 365 (= 9)
Bring down the 6

Divide 89 into 96 (= 1)
Multiply 1 times 89 (= 89)
Subtract 89 from 96 (= 7)
Bring down the 1

Divide 89 into 71 (= 0)
Multiply 0 times 89 (= 0)
Subtract 0 from 71 (= 71)
Done. No more numbers to bring down.