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)

$8 \overline{)2823795}$

(2)

$3 \overline{)9469679}$

(3)

$3 \overline{)8844875}$

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

(1)

```
      352974 R3
   8 | 2823795
     - 24          (3x8)
       42
     - 40          (5x8)
       23
     - 16          (2x8)
        77
     - 72          (9x8)
         59
     - 56          (7x8)
          35
     - 32          (4x8)
           3
```

Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 28 (= 3)
Multiply 3 times 8 (= 24)
Subtract 24 from 28 (= 4)
Bring down the 2

Divide 8 into 42 (= 5)
Multiply 5 times 8 (= 40)
Subtract 40 from 42 (= 2)
Bring down the 3

Divide 8 into 23 (= 2)
Multiply 2 times 8 (= 16)
Subtract 16 from 23 (= 7)
Bring down the 7

Divide 8 into 77 (= 9)
Multiply 9 times 8 (= 72)
Subtract 72 from 77 (= 5)
Bring down the 9

Divide 8 into 59 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 59 (= 3)
Bring down the 5

Divide 8 into 35 (= 4)
Multiply 4 times 8 (= 32)
Subtract 32 from 35 (= 3)
Done. No more numbers to bring down.

(2)

```
      3156559 R2
   3 | 9469679
     - 9           (3x3)
       04
     - 3           (1x3)
       16
     - 15          (5x3)
        19
     - 18          (6x3)
         16
     - 15          (5x3)
          17
     - 15          (5x3)
           29
     - 27          (9x3)
            2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 9 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 9 (= 0)
Bring down the 4

Divide 3 into 04 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 04 (= 1)
Bring down the 6

Divide 3 into 16 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 16 (= 1)
Bring down the 9

Divide 3 into 19 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 6

Divide 3 into 16 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 16 (= 1)
Bring down the 7

Divide 3 into 17 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 17 (= 2)
Bring down the 9

Divide 3 into 29 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 29 (= 2)
Done. No more numbers to bring down.

(3)

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      2948291 R2
   3 | 8844875
     - 6           (2x3)
       28
     - 27          (9x3)
        14
     - 12          (4x3)
         24
     - 24          (8x3)
          08
     - 6           (2x3)
           27
     - 27          (9x3)
            05
     - 3           (1x3)
             2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 8 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 8

Divide 3 into 28 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 28 (= 1)
Bring down the 4

Divide 3 into 14 (= 4)
Multiply 4 times 3 (= 12)
Subtract 12 from 14 (= 2)
Bring down the 4

Divide 3 into 24 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 8

Divide 3 into 08 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 08 (= 2)
Bring down the 7

Divide 3 into 27 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 27 (= 0)
Bring down the 5

Divide 3 into 05 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 05 (= 2)
Done. No more numbers to bring down.