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)

$$5 \overline{)7790337}$$

(2)

$$9 \overline{)5193860}$$

(3)

$$3 \overline{)3394783}$$

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

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(1)

```
           1558067 R2
        _____
    5 | 7790337
      -  5              ( 1 x 5 )
        ____
         27
       -  25            ( 5 x 5 )
        ____
          29
        -  25           ( 5 x 5 )
        ____
           40
         -  40          ( 8 x 5 )
         ____
            03
          -  0          ( 0 x 5 )
          ____
            33
          -  30         ( 6 x 5 )
          ____
             37
           -  35        ( 7 x 5 )
           ____
Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 5 into 7 (= 1)
Multiply 1 times 5 (= 5)
Subtract 5 from 7 (= 2)
Bring down the 7

Divide 5 into 27 (= 5)
Multiply 5 times 5 (= 25)
Subtract 25 from 27 (= 2)
Bring down the 9

Divide 5 into 29 (= 5)
Multiply 5 times 5 (= 25)
Subtract 25 from 29 (= 4)
Bring down the 0

Divide 5 into 40 (= 8)
Multiply 8 times 5 (= 40)
Subtract 40 from 40 (= 0)
Bring down the 3

Divide 5 into 03 (= 0)
Multiply 0 times 5 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 3

Divide 5 into 33 (= 6)
Multiply 6 times 5 (= 30)
Subtract 30 from 33 (= 3)
Bring down the 7

Divide 5 into 37 (= 7)
Multiply 7 times 5 (= 35)
Subtract 35 from 37 (= 2)
Done. No more numbers to bring down.

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(2)

```
          577095 R5
       _____
   9 | 5193860
     -  45             ( 5 x 9 )
       ____
        69
      -  63            ( 7 x 9 )
       ____
        63
      -  63            ( 7 x 9 )
       ____
         08
       -  0            ( 0 x 9 )
        ____
         86
       -  81           ( 9 x 9 )
        ____
          50
        -  45          ( 5 x 9 )
Remainder -->  5
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 51 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 51 (= 6)
Bring down the 9

Divide 9 into 69 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 69 (= 6)
Bring down the 3

Divide 9 into 63 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 63 (= 0)
Bring down the 8

Divide 9 into 08 (= 0)
Multiply 0 times 9 (= 0)
Subtract 0 from 08 (= 8)
Bring down the 6

Divide 9 into 86 (= 9)
Multiply 9 times 9 (= 81)
Subtract 81 from 86 (= 5)
Bring down the 0

Divide 9 into 50 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 50 (= 5)
Done. No more numbers to bring down.

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(3)

```
          1131594 R1
       _____
   3 | 3394783
     -  3              ( 1 x 3 )
       ____
        03
      -  3             ( 1 x 3 )
       ____
        09
      -  9             ( 3 x 3 )
       ____
        04
      -  3             ( 1 x 3 )
       ____
        17
      -  15            ( 5 x 3 )
       ____
        28
      -  27            ( 9 x 3 )
       ____
        13
      -  12            ( 4 x 3 )
       ____
Remainder -->  1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 3 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 3 (= 0)
Bring down the 3

Divide 3 into 03 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 03 (= 0)
Bring down the 9

Divide 3 into 09 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 09 (= 0)
Bring down the 4

Divide 3 into 04 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 04 (= 1)
Bring down the 7

Divide 3 into 17 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 17 (= 2)
Bring down the 8

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

Divide 3 into 13 (= 4)
Multiply 4 times 3 (= 12)
Subtract 12 from 13 (= 1)
Done. No more numbers to bring down.