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)

$$77 \overline{)9139841}$$

(2)

$$12 \overline{)9674925}$$

(3)

$$22 \overline{)9006971}$$

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

(1)

```
      118699 R18
77 | 9139841
   - 77          ( 1 x 77 )
     143
   - 77          ( 1 x 77 )
     669
   - 616         ( 8 x 77 )
      538
   - 462         ( 6 x 77 )
      764
   - 693         ( 9 x 77 )
      711
   - 693         ( 9 x 77 )
       18
```

Remainder --> 18

Divide, Multiply, Subtract, Bring down, Repeat

Divide 77 into 91 (= 1)
Multiply 1 times 77 (= 77)
Subtract 77 from 91 (= 14)
Bring down the 3

Divide 77 into 143 (= 1)
Multiply 1 times 77 (= 77)
Subtract 77 from 143 (= 66)
Bring down the 9

Divide 77 into 669 (= 8)
Multiply 8 times 77 (= 616)
Subtract 616 from 669 (= 53)
Bring down the 8

Divide 77 into 538 (= 6)
Multiply 6 times 77 (= 462)
Subtract 462 from 538 (= 76)
Bring down the 4

Divide 77 into 764 (= 9)
Multiply 9 times 77 (= 693)
Subtract 693 from 764 (= 71)
Bring down the 1

Divide 77 into 711 (= 9)
Multiply 9 times 77 (= 693)
Subtract 693 from 711 (= 18)
Done. No more numbers to bring down.

(2)

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      806243 R9
12 | 9674925
   - 96          ( 8 x 12 )
     07
   - 0           ( 0 x 12 )
     74
   - 72          ( 6 x 12 )
     29
   - 24          ( 2 x 12 )
     52
   - 48          ( 4 x 12 )
     45
   - 36          ( 3 x 12 )
      9
```

Remainder --> 9

Divide, Multiply, Subtract, Bring down, Repeat

Divide 12 into 96 (= 8)
Multiply 8 times 12 (= 96)
Subtract 96 from 96 (= 0)
Bring down the 7

Divide 12 into 07 (= 0)
Multiply 0 times 12 (= 0)
Subtract 0 from 07 (= 7)
Bring down the 4

Divide 12 into 74 (= 6)
Multiply 6 times 12 (= 72)
Subtract 72 from 74 (= 2)
Bring down the 9

Divide 12 into 29 (= 2)
Multiply 2 times 12 (= 24)
Subtract 24 from 29 (= 5)
Bring down the 2

Divide 12 into 52 (= 4)
Multiply 4 times 12 (= 48)
Subtract 48 from 52 (= 4)
Bring down the 5

Divide 12 into 45 (= 3)
Multiply 3 times 12 (= 36)
Subtract 36 from 45 (= 9)
Done. No more numbers to bring down.

(3)

```
      409407 R17
22 | 9006971
   - 88          ( 4 x 22 )
     20
   - 0           ( 0 x 22 )
     206
   - 198         ( 9 x 22 )
      89
   - 88          ( 4 x 22 )
      17
   - 0           ( 0 x 22 )
     171
   - 154         ( 7 x 22 )
      17
```

Remainder --> 17

Divide, Multiply, Subtract, Bring down, Repeat

Divide 22 into 90 (= 4)
Multiply 4 times 22 (= 88)
Subtract 88 from 90 (= 2)
Bring down the 0

Divide 22 into 20 (= 0)
Multiply 0 times 22 (= 0)
Subtract 0 from 20 (= 20)
Bring down the 6

Divide 22 into 206 (= 9)
Multiply 9 times 22 (= 198)
Subtract 198 from 206 (= 8)
Bring down the 9

Divide 22 into 89 (= 4)
Multiply 4 times 22 (= 88)
Subtract 88 from 89 (= 1)
Bring down the 7

Divide 22 into 17 (= 0)
Multiply 0 times 22 (= 0)
Subtract 0 from 17 (= 17)
Bring down the 1

Divide 22 into 171 (= 7)
Multiply 7 times 22 (= 154)
Subtract 154 from 171 (= 17)
Done. No more numbers to bring down.