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)

$$71 \overline{)1062350}$$

(2)

$$38 \overline{)1621844}$$

(3)

$$82 \overline{)4698696}$$

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

(1)

```
           14962 R48
    71 | 1062350
       -  71           ( 1 x 71 )
          352
       -  284          ( 4 x 71 )
          683
       -  639          ( 9 x 71 )
          445
       -  426          ( 6 x 71 )
          190
       -  142          ( 2 x 71 )
```
Remainder -->　48

Divide, Multiply, Subtract, Bring down, Repeat

Divide 71 into 106 (= 1)
Multiply 1 times 71 (= 71)
Subtract 71 from 106 (= 35)
Bring down the 2

Divide 71 into 352 (= 4)
Multiply 4 times 71 (= 284)
Subtract 284 from 352 (= 68)
Bring down the 3

Divide 71 into 683 (= 9)
Multiply 9 times 71 (= 639)
Subtract 639 from 683 (= 44)
Bring down the 5

Divide 71 into 445 (= 6)
Multiply 6 times 71 (= 426)
Subtract 426 from 445 (= 19)
Bring down the 0

Divide 71 into 190 (= 2)
Multiply 2 times 71 (= 142)
Subtract 142 from 190 (= 48)
Done. No more numbers to bring down.

(2)

```
           42680 R4
    38 | 1621844
       -  152          ( 4 x 38 )
          101
       -  76           ( 2 x 38 )
          258
       -  228          ( 6 x 38 )
          304
       -  304          ( 8 x 38 )
          04
       -  0            ( 0 x 38 )
```
Remainder -->　4

Divide, Multiply, Subtract, Bring down, Repeat

Divide 38 into 162 (= 4)
Multiply 4 times 38 (= 152)
Subtract 152 from 162 (= 10)
Bring down the 1

Divide 38 into 101 (= 2)
Multiply 2 times 38 (= 76)
Subtract 76 from 101 (= 25)
Bring down the 8

Divide 38 into 258 (= 6)
Multiply 6 times 38 (= 228)
Subtract 228 from 258 (= 30)
Bring down the 4

Divide 38 into 304 (= 8)
Multiply 8 times 38 (= 304)
Subtract 304 from 304 (= 0)
Bring down the 4

Divide 38 into 04 (= 0)
Multiply 0 times 38 (= 0)
Subtract 0 from 04 (= 4)
Done. No more numbers to bring down.

(3)

```
           57301 R14
    82 | 4698696
       -  410          ( 5 x 82 )
          598
       -  574          ( 7 x 82 )
          246
       -  246          ( 3 x 82 )
          09
       -  0            ( 0 x 82 )
          96
       -  82           ( 1 x 82 )
```
Remainder -->　14

Divide, Multiply, Subtract, Bring down, Repeat

Divide 82 into 469 (= 5)
Multiply 5 times 82 (= 410)
Subtract 410 from 469 (= 59)
Bring down the 8

Divide 82 into 598 (= 7)
Multiply 7 times 82 (= 574)
Subtract 574 from 598 (= 24)
Bring down the 6

Divide 82 into 246 (= 3)
Multiply 3 times 82 (= 246)
Subtract 246 from 246 (= 0)
Bring down the 9

Divide 82 into 09 (= 0)
Multiply 0 times 82 (= 0)
Subtract 0 from 09 (= 9)
Bring down the 6

Divide 82 into 96 (= 1)
Multiply 1 times 82 (= 82)
Subtract 82 from 96 (= 14)
Done. No more numbers to bring down.