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)

$$14 \overline{)3041828}$$

(2)

$$89 \overline{)1759948}$$

(3)

$$31 \overline{)5790861}$$

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

(1)

```
      217273 R6
  14 | 3041828
     - 28          ( 2 x 14 )
       24
     - 14          ( 1 x 14 )
       101
     - 98          ( 7 x 14 )
        38
     - 28          ( 2 x 14 )
       102
     - 98          ( 7 x 14 )
        48
     - 42          ( 3 x 14 )
         6
```

Remainder --> 6

Divide, Multiply, Subtract, Bring down, Repeat

Divide 14 into 30 (= 2)
Multiply 2 times 14 (= 28)
Subtract 28 from 30 (= 2)
Bring down the 4

Divide 14 into 24 (= 1)
Multiply 1 times 14 (= 14)
Subtract 14 from 24 (= 10)
Bring down the 1

Divide 14 into 101 (= 7)
Multiply 7 times 14 (= 98)
Subtract 98 from 101 (= 3)
Bring down the 8

Divide 14 into 38 (= 2)
Multiply 2 times 14 (= 28)
Subtract 28 from 38 (= 10)
Bring down the 2

Divide 14 into 102 (= 7)
Multiply 7 times 14 (= 98)
Subtract 98 from 102 (= 4)
Bring down the 8

Divide 14 into 48 (= 3)
Multiply 3 times 14 (= 42)
Subtract 42 from 48 (= 6)
Done. No more numbers to bring down.

(2)

```
      19774 R62
  89 | 1759948
     - 89          ( 1 x 89 )
       869
     - 801         ( 9 x 89 )
       689
     - 623         ( 7 x 89 )
        664
     - 623         ( 7 x 89 )
        418
     - 356         ( 4 x 89 )
         62
```

Remainder --> 62

Divide, Multiply, Subtract, Bring down, Repeat

Divide 89 into 175 (= 1)
Multiply 1 times 89 (= 89)
Subtract 89 from 175 (= 86)
Bring down the 9

Divide 89 into 869 (= 9)
Multiply 9 times 89 (= 801)
Subtract 801 from 869 (= 68)
Bring down the 9

Divide 89 into 689 (= 7)
Multiply 7 times 89 (= 623)
Subtract 623 from 689 (= 66)
Bring down the 4

Divide 89 into 664 (= 7)
Multiply 7 times 89 (= 623)
Subtract 623 from 664 (= 41)
Bring down the 8

Divide 89 into 418 (= 4)
Multiply 4 times 89 (= 356)
Subtract 356 from 418 (= 62)
Done. No more numbers to bring down.

(3)

```
      186801 R30
  31 | 5790861
     - 31          ( 1 x 31 )
       269
     - 248         ( 8 x 31 )
       210
     - 186         ( 6 x 31 )
        248
     - 248         ( 8 x 31 )
         06
     -  0          ( 0 x 31 )
         61
     - 31          ( 1 x 31 )
         30
```

Remainder --> 30

Divide, Multiply, Subtract, Bring down, Repeat

Divide 31 into 57 (= 1)
Multiply 1 times 31 (= 31)
Subtract 31 from 57 (= 26)
Bring down the 9

Divide 31 into 269 (= 8)
Multiply 8 times 31 (= 248)
Subtract 248 from 269 (= 21)
Bring down the 0

Divide 31 into 210 (= 6)
Multiply 6 times 31 (= 186)
Subtract 186 from 210 (= 24)
Bring down the 8

Divide 31 into 248 (= 8)
Multiply 8 times 31 (= 248)
Subtract 248 from 248 (= 0)
Bring down the 6

Divide 31 into 06 (= 0)
Multiply 0 times 31 (= 0)
Subtract 0 from 06 (= 6)
Bring down the 1

Divide 31 into 61 (= 1)
Multiply 1 times 31 (= 31)
Subtract 31 from 61 (= 30)
Done. No more numbers to bring down.