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)

$$98 \overline{)\,442154}$$

(2)

$$63 \overline{)\,213086}$$

(3)

$$30 \overline{)\,549051}$$

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

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

(1)

```
      4511 R76
  98 | 442154
     - 392        ( 4 x 98 )
       501
     - 490        ( 5 x 98 )
       115
     -  98        ( 1 x 98 )
       174
     -  98        ( 1 x 98 )
        76
```

Remainder --> 76

Divide, Multiply, Subtract, Bring down, Repeat

Divide 98 into 442 (= 4)
Multiply 4 times 98 (= 392)
Subtract 392 from 442 (= 50)
Bring down the 1

Divide 98 into 501 (= 5)
Multiply 5 times 98 (= 490)
Subtract 490 from 501 (= 11)
Bring down the 5

Divide 98 into 115 (= 1)
Multiply 1 times 98 (= 98)
Subtract 98 from 115 (= 17)
Bring down the 4

Divide 98 into 174 (= 1)
Multiply 1 times 98 (= 98)
Subtract 98 from 174 (= 76)
Done. No more numbers to bring down.

(2)

```
      3382 R20
  63 | 213086
     - 189        ( 3 x 63 )
       240
     - 189        ( 3 x 63 )
       518
     - 504        ( 8 x 63 )
       146
     - 126        ( 2 x 63 )
        20
```

Remainder --> 20

Divide, Multiply, Subtract, Bring down, Repeat

Divide 63 into 213 (= 3)
Multiply 3 times 63 (= 189)
Subtract 189 from 213 (= 24)
Bring down the 0

Divide 63 into 240 (= 3)
Multiply 3 times 63 (= 189)
Subtract 189 from 240 (= 51)
Bring down the 8

Divide 63 into 518 (= 8)
Multiply 8 times 63 (= 504)
Subtract 504 from 518 (= 14)
Bring down the 6

Divide 63 into 146 (= 2)
Multiply 2 times 63 (= 126)
Subtract 126 from 146 (= 20)
Done. No more numbers to bring down.

(3)

```
      18301 R21
  30 | 549051
     -  30        ( 1 x 30 )
       249
     - 240        ( 8 x 30 )
        90
     -  90        ( 3 x 30 )
         05
     -   0        ( 0 x 30 )
         51
     -  30        ( 1 x 30 )
         21
```

Remainder --> 21

Divide, Multiply, Subtract, Bring down, Repeat

Divide 30 into 54 (= 1)
Multiply 1 times 30 (= 30)
Subtract 30 from 54 (= 24)
Bring down the 9

Divide 30 into 249 (= 8)
Multiply 8 times 30 (= 240)
Subtract 240 from 249 (= 9)
Bring down the 0

Divide 30 into 90 (= 3)
Multiply 3 times 30 (= 90)
Subtract 90 from 90 (= 0)
Bring down the 5

Divide 30 into 05 (= 0)
Multiply 0 times 30 (= 0)
Subtract 0 from 05 (= 5)
Bring down the 1

Divide 30 into 51 (= 1)
Multiply 1 times 30 (= 30)
Subtract 30 from 51 (= 21)
Done. No more numbers to bring down.