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)

$$92 \overline{)142430}$$

(2)

$$98 \overline{)392493}$$

(3)

$$94 \overline{)805161}$$

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)

```
      1548 R14
   ____________
92 | 142430
   -  92          ( 1 x 92 )
   ------
      504
   -  460         ( 5 x 92 )
   ------
       443
   -   368        ( 4 x 92 )
   -------
       750
   -   736        ( 8 x 92 )
   -------
        14
```

Remainder --> 14

Divide, Multiply, Subtract, Bring down, Repeat

Divide 92 into 142 (= 1)
Multiply 1 times 92 (= 92)
Subtract 92 from 142 (= 50)
Bring down the 4

Divide 92 into 504 (= 5)
Multiply 5 times 92 (= 460)
Subtract 460 from 504 (= 44)
Bring down the 3

Divide 92 into 443 (= 4)
Multiply 4 times 92 (= 368)
Subtract 368 from 443 (= 75)
Bring down the 0

Divide 92 into 750 (= 8)
Multiply 8 times 92 (= 736)
Subtract 736 from 750 (= 14)
Done. No more numbers to bring down.

(2)

```
      4005 R3
   ____________
98 | 392493
   -  392         ( 4 x 98 )
   ------
       04
   -   0          ( 0 x 98 )
   -------
       49
   -   0          ( 0 x 98 )
   -------
       493
   -   490        ( 5 x 98 )
   -------
         3
```

Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 98 into 392 (= 4)
Multiply 4 times 98 (= 392)
Subtract 392 from 392 (= 0)
Bring down the 4

Divide 98 into 04 (= 0)
Multiply 0 times 98 (= 0)
Subtract 0 from 04 (= 4)
Bring down the 9

Divide 98 into 49 (= 0)
Multiply 0 times 98 (= 0)
Subtract 0 from 49 (= 49)
Bring down the 3

Divide 98 into 493 (= 5)
Multiply 5 times 98 (= 490)
Subtract 490 from 493 (= 3)
Done. No more numbers to bring down.

(3)

```
      8565 R51
   ____________
94 | 805161
   -  752         ( 8 x 94 )
   ------
       531
   -   470        ( 5 x 94 )
   -------
        616
   -    564       ( 6 x 94 )
   --------
         521
   -     470      ( 5 x 94 )
   --------
          51
```

Remainder --> 51

Divide, Multiply, Subtract, Bring down, Repeat

Divide 94 into 805 (= 8)
Multiply 8 times 94 (= 752)
Subtract 752 from 805 (= 53)
Bring down the 1

Divide 94 into 531 (= 5)
Multiply 5 times 94 (= 470)
Subtract 470 from 531 (= 61)
Bring down the 6

Divide 94 into 616 (= 6)
Multiply 6 times 94 (= 564)
Subtract 564 from 616 (= 52)
Bring down the 1

Divide 94 into 521 (= 5)
Multiply 5 times 94 (= 470)
Subtract 470 from 521 (= 51)
Done. No more numbers to bring down.