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)

$$764 \overline{)6740031}$$

(2)

$$868 \overline{)8473955}$$

(3)

$$666 \overline{)5608335}$$

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

(1)

```
          8822 R23
764 | 6740031
     - 6112        ( 8 x 764 )
       6280
     - 6112        ( 8 x 764 )
       1683
     - 1528        ( 2 x 764 )
       1551
     - 1528        ( 2 x 764 )
         23
```

Remainder --> 23

Divide, Multiply, Subtract, Bring down, Repeat

Divide 764 into 6740 (= 8)
Multiply 8 times 764 (= 6112)
Subtract 6112 from 6740 (= 628)
Bring down the 0

Divide 764 into 6280 (= 8)
Multiply 8 times 764 (= 6112)
Subtract 6112 from 6280 (= 168)
Bring down the 3

Divide 764 into 1683 (= 2)
Multiply 2 times 764 (= 1528)
Subtract 1528 from 1683 (= 155)
Bring down the 1

Divide 764 into 1551 (= 2)
Multiply 2 times 764 (= 1528)
Subtract 1528 from 1551 (= 23)
Done. No more numbers to bring down.

(2)

```
          9762 R539
868 | 8473955
     - 7812        ( 9 x 868 )
       6619
     - 6076        ( 7 x 868 )
       5435
     - 5208        ( 6 x 868 )
       2275
     - 1736        ( 2 x 868 )
        539
```

Remainder --> 539

Divide, Multiply, Subtract, Bring down, Repeat

Divide 868 into 8473 (= 9)
Multiply 9 times 868 (= 7812)
Subtract 7812 from 8473 (= 661)
Bring down the 9

Divide 868 into 6619 (= 7)
Multiply 7 times 868 (= 6076)
Subtract 6076 from 6619 (= 543)
Bring down the 5

Divide 868 into 5435 (= 6)
Multiply 6 times 868 (= 5208)
Subtract 5208 from 5435 (= 227)
Bring down the 5

Divide 868 into 2275 (= 2)
Multiply 2 times 868 (= 1736)
Subtract 1736 from 2275 (= 539)
Done. No more numbers to bring down.

(3)

```
          8420 R615
666 | 5608335
     - 5328        ( 8 x 666 )
       2803
     - 2664        ( 4 x 666 )
       1393
     - 1332        ( 2 x 666 )
        615
     -    0        ( 0 x 666 )
        615
```

Remainder --> 615

Divide, Multiply, Subtract, Bring down, Repeat

Divide 666 into 5608 (= 8)
Multiply 8 times 666 (= 5328)
Subtract 5328 from 5608 (= 280)
Bring down the 3

Divide 666 into 2803 (= 4)
Multiply 4 times 666 (= 2664)
Subtract 2664 from 2803 (= 139)
Bring down the 3

Divide 666 into 1393 (= 2)
Multiply 2 times 666 (= 1332)
Subtract 1332 from 1393 (= 61)
Bring down the 5

Divide 666 into 615 (= 0)
Multiply 0 times 666 (= 0)
Subtract 0 from 615 (= 615)
Done. No more numbers to bring down.