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)

$$396 \overline{)6830607}$$

(2)

$$537 \overline{)8615865}$$

(3)

$$858 \overline{)3146080}$$

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)

```
      17249 R3
  396 | 6830607
    - 396          ( 1 x 396 )
      2870
    - 2772         ( 7 x 396 )
       986
     - 792         ( 2 x 396 )
      1940
    - 1584         ( 4 x 396 )
       3567
     - 3564        ( 9 x 396 )
Remainder -->         3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 396 into 683 (= 1)
Multiply 1 times 396 (= 396)
Subtract 396 from 683 (= 287)
Bring down the 0

Divide 396 into 2870 (= 7)
Multiply 7 times 396 (= 2772)
Subtract 2772 from 2870 (= 98)
Bring down the 6

Divide 396 into 986 (= 2)
Multiply 2 times 396 (= 792)
Subtract 792 from 986 (= 194)
Bring down the 0

Divide 396 into 1940 (= 4)
Multiply 4 times 396 (= 1584)
Subtract 1584 from 1940 (= 356)
Bring down the 7

Divide 396 into 3567 (= 9)
Multiply 9 times 396 (= 3564)
Subtract 3564 from 3567 (= 3)
Done. No more numbers to bring down.

(2)

```
      16044 R237
  537 | 8615865
    - 537          ( 1 x 537 )
      3245
    - 3222         ( 6 x 537 )
       238
     - 0           ( 0 x 537 )
      2386
    - 2148         ( 4 x 537 )
       2385
     - 2148        ( 4 x 537 )
Remainder -->         237
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 537 into 861 (= 1)
Multiply 1 times 537 (= 537)
Subtract 537 from 861 (= 324)
Bring down the 5

Divide 537 into 3245 (= 6)
Multiply 6 times 537 (= 3222)
Subtract 3222 from 3245 (= 23)
Bring down the 8

Divide 537 into 238 (= 0)
Multiply 0 times 537 (= 0)
Subtract 0 from 238 (= 238)
Bring down the 6

Divide 537 into 2386 (= 4)
Multiply 4 times 537 (= 2148)
Subtract 2148 from 2386 (= 238)
Bring down the 5

Divide 537 into 2385 (= 4)
Multiply 4 times 537 (= 2148)
Subtract 2148 from 2385 (= 237)
Done. No more numbers to bring down.

(3)

```
      3666 R652
  858 | 3146080
    - 2574         ( 3 x 858 )
      5720
    - 5148         ( 6 x 858 )
       5728
     - 5148        ( 6 x 858 )
      5800
    - 5148         ( 6 x 858 )
Remainder -->         652
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 858 into 3146 (= 3)
Multiply 3 times 858 (= 2574)
Subtract 2574 from 3146 (= 572)
Bring down the 0

Divide 858 into 5720 (= 6)
Multiply 6 times 858 (= 5148)
Subtract 5148 from 5720 (= 572)
Bring down the 8

Divide 858 into 5728 (= 6)
Multiply 6 times 858 (= 5148)
Subtract 5148 from 5728 (= 580)
Bring down the 0

Divide 858 into 5800 (= 6)
Multiply 6 times 858 (= 5148)
Subtract 5148 from 5800 (= 652)
Done. No more numbers to bring down.