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)

$$60\overline{)72342}$$

(2)

$$12\overline{)35912}$$

(3)

$$67\overline{)50768}$$

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

(1)

```
      1205 R42
   ------------
60 | 72342
     - 60          ( 1 x 60 )
     -----
      123
     - 120         ( 2 x 60 )
     -----
       34
      - 0          ( 0 x 60 )
     -----
       342
     - 300         ( 5 x 60 )
     -----
        42
```

Remainder --> 42

Divide, Multiply, Subtract, Bring down, Repeat

Divide 60 into 72 (= 1)
Multiply 1 times 60 (= 60)
Subtract 60 from 72 (= 12)
Bring down the 3

Divide 60 into 123 (= 2)
Multiply 2 times 60 (= 120)
Subtract 120 from 123 (= 3)
Bring down the 4

Divide 60 into 34 (= 0)
Multiply 0 times 60 (= 0)
Subtract 0 from 34 (= 34)
Bring down the 2

Divide 60 into 342 (= 5)
Multiply 5 times 60 (= 300)
Subtract 300 from 342 (= 42)
Done. No more numbers to bring down.

(2)

```
      2992 R8
   ------------
12 | 35912
     - 24          ( 2 x 12 )
     -----
      119
     - 108         ( 9 x 12 )
     -----
       111
     - 108         ( 9 x 12 )
     -----
        32
      - 24         ( 2 x 12 )
     -----
         8
```

Remainder --> 8

Divide, Multiply, Subtract, Bring down, Repeat

Divide 12 into 35 (= 2)
Multiply 2 times 12 (= 24)
Subtract 24 from 35 (= 11)
Bring down the 9

Divide 12 into 119 (= 9)
Multiply 9 times 12 (= 108)
Subtract 108 from 119 (= 11)
Bring down the 1

Divide 12 into 111 (= 9)
Multiply 9 times 12 (= 108)
Subtract 108 from 111 (= 3)
Bring down the 2

Divide 12 into 32 (= 2)
Multiply 2 times 12 (= 24)
Subtract 24 from 32 (= 8)
Done. No more numbers to bring down.

(3)

```
      757 R49
   ------------
67 | 50768
     - 469         ( 7 x 67 )
     -----
      386
     - 335         ( 5 x 67 )
     -----
       518
     - 469         ( 7 x 67 )
     -----
        49
```

Remainder --> 49

Divide, Multiply, Subtract, Bring down, Repeat

Divide 67 into 507 (= 7)
Multiply 7 times 67 (= 469)
Subtract 469 from 507 (= 38)
Bring down the 6

Divide 67 into 386 (= 5)
Multiply 5 times 67 (= 335)
Subtract 335 from 386 (= 51)
Bring down the 8

Divide 67 into 518 (= 7)
Multiply 7 times 67 (= 469)
Subtract 469 from 518 (= 49)
Done. No more numbers to bring down.