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)

$6\overline{)8240}$

(2)

$6\overline{)6373}$

(3)

$2\overline{)2629}$

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

(1)

```
     1373 R2
   ________
 6 | 8240
   - 6        (1 x 6)
     22
   - 18       (3 x 6)
      44
    - 42      (7 x 6)
       20
     - 18     (3 x 6)
Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 8 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 2

Divide 6 into 22 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 22 (= 4)
Bring down the 4

Divide 6 into 44 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 44 (= 2)
Bring down the 0

Divide 6 into 20 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 20 (= 2)
Done. No more numbers to bring down.

(2)

```
     1062 R1
   ________
 6 | 6373
   - 6        (1 x 6)
     03
    - 0       (0 x 6)
      37
    - 36      (6 x 6)
       13
     - 12     (2 x 6)
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 6 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 3

Divide 6 into 03 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 7

Divide 6 into 37 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 37 (= 1)
Bring down the 3

Divide 6 into 13 (= 2)
Multiply 2 times 6 (= 12)
Subtract 12 from 13 (= 1)
Done. No more numbers to bring down.

(3)

```
     1314 R1
   ________
 2 | 2629
   - 2        (1 x 2)
     06
    - 6       (3 x 2)
      02
     - 2      (1 x 2)
       09
      - 8     (4 x 2)
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 2 (= 1)
Multiply 1 times 2 (= 2)
Subtract 2 from 2 (= 0)
Bring down the 6

Divide 2 into 06 (= 3)
Multiply 3 times 2 (= 6)
Subtract 6 from 06 (= 0)
Bring down the 2

Divide 2 into 02 (= 1)
Multiply 1 times 2 (= 2)
Subtract 2 from 02 (= 0)
Bring down the 9

Divide 2 into 09 (= 4)
Multiply 4 times 2 (= 8)
Subtract 8 from 09 (= 1)
Done. No more numbers to bring down.