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)

$4\overline{)4702}$

(2)

$2\overline{)3118}$

(3)

$7\overline{)3152}$

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

(1)

```
     1175 R2
  4 | 4702
    - 4          ( 1 x 4 )
      07
    - 4          ( 1 x 4 )
      30
    - 28         ( 7 x 4 )
       22
    - 20         ( 5 x 4 )
        2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 4 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 4 (= 0)
Bring down the 7

Divide 4 into 07 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 07 (= 3)
Bring down the 0

Divide 4 into 30 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 30 (= 2)
Bring down the 2

Divide 4 into 22 (= 5)
Multiply 5 times 4 (= 20)
Subtract 20 from 22 (= 2)
Done. No more numbers to bring down.

(2)

```
     1559 R0
  2 | 3118
    - 2          ( 1 x 2 )
      11
    - 10         ( 5 x 2 )
       11
    - 10         ( 5 x 2 )
       18
    - 18         ( 9 x 2 )
        0
```

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 3 (= 1)
Multiply 1 times 2 (= 2)
Subtract 2 from 3 (= 1)
Bring down the 1

Divide 2 into 11 (= 5)
Multiply 5 times 2 (= 10)
Subtract 10 from 11 (= 1)
Bring down the 1

Divide 2 into 11 (= 5)
Multiply 5 times 2 (= 10)
Subtract 10 from 11 (= 1)
Bring down the 8

Divide 2 into 18 (= 9)
Multiply 9 times 2 (= 18)
Subtract 18 from 18 (= 0)
Done. No more numbers to bring down.

(3)

```
     450 R2
  7 | 3152
    - 28         ( 4 x 7 )
      35
    - 35         ( 5 x 7 )
       02
    - 0          ( 0 x 7 )
        2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 31 (= 4)
Multiply 4 times 7 (= 28)
Subtract 28 from 31 (= 3)
Bring down the 5

Divide 7 into 35 (= 5)
Multiply 5 times 7 (= 35)
Subtract 35 from 35 (= 0)
Bring down the 2

Divide 7 into 02 (= 0)
Multiply 0 times 7 (= 0)
Subtract 0 from 02 (= 2)
Done. No more numbers to bring down.