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)

7 | 58548

(2)

8 | 72233

(3)

2 | 52013

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)

```
        8364 R0
    _____
  7 | 58548
   -  56          ( 8 x 7 )
    _____
       25
   -   21          ( 3 x 7 )
    _____
       44
   -   42          ( 6 x 7 )
    _____
       28
   -   28          ( 4 x 7 )
    _____
Remainder -->   0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 58 (= 8)
Multiply 8 times 7 (= 56)
Subtract 56 from 58 (= 2)
Bring down the 5

Divide 7 into 25 (= 3)
Multiply 3 times 7 (= 21)
Subtract 21 from 25 (= 4)
Bring down the 4

Divide 7 into 44 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 44 (= 2)
Bring down the 8

Divide 7 into 28 (= 4)
Multiply 4 times 7 (= 28)
Subtract 28 from 28 (= 0)
Done. No more numbers to bring down.

---

(2)

```
        9029 R1
    _____
  8 | 72233
   -  72          ( 9 x 8 )
    _____
       02
   -    0          ( 0 x 8 )
    _____
       23
   -   16          ( 2 x 8 )
    _____
       73
   -   72          ( 9 x 8 )
    _____
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 72 (= 9)
Multiply 9 times 8 (= 72)
Subtract 72 from 72 (= 0)
Bring down the 2

Divide 8 into 02 (= 0)
Multiply 0 times 8 (= 0)
Subtract 0 from 02 (= 2)
Bring down the 3

Divide 8 into 23 (= 2)
Multiply 2 times 8 (= 16)
Subtract 16 from 23 (= 7)
Bring down the 3

Divide 8 into 73 (= 9)
Multiply 9 times 8 (= 72)
Subtract 72 from 73 (= 1)
Done. No more numbers to bring down.

---

(3)

```
        26006 R1
    _____
  2 | 52013
   -  4           ( 2 x 2 )
    _____
      12
   -  12          ( 6 x 2 )
    _____
      00
   -   0          ( 0 x 2 )
    _____
      01
   -   0          ( 0 x 2 )
    _____
      13
   -  12          ( 6 x 2 )
    _____
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 5 (= 2)
Multiply 2 times 2 (= 4)
Subtract 4 from 5 (= 1)
Bring down the 2

Divide 2 into 12 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 12 (= 0)
Bring down the 0

Divide 2 into 00 (= 0)
Multiply 0 times 2 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 1

Divide 2 into 01 (= 0)
Multiply 0 times 2 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 3

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