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)

84 | 802811

(2)

68 | 642205

(3)

23 | 444475

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)

```
              9557 R23
        ┌─────────────
    84  │ 802811
        │  −  756          ( 9 x 84 )
        │     468
        │  −  420          ( 5 x 84 )
        │     481
        │  −  420          ( 5 x 84 )
        │     611
        │  −  588          ( 7 x 84 )
```
Remainder -->   23

Divide, Multiply, Subtract, Bring down, Repeat

Divide 84 into 802 (= 9)
Multiply 9 times 84 (= 756)
Subtract 756 from 802 (= 46)
Bring down the 8

Divide 84 into 468 (= 5)
Multiply 5 times 84 (= 420)
Subtract 420 from 468 (= 48)
Bring down the 1

Divide 84 into 481 (= 5)
Multiply 5 times 84 (= 420)
Subtract 420 from 481 (= 61)
Bring down the 1

Divide 84 into 611 (= 7)
Multiply 7 times 84 (= 588)
Subtract 588 from 611 (= 23)
Done. No more numbers to bring down.

---

(2)

```
              9444 R13
        ┌─────────────
    68  │ 642205
        │  −  612          ( 9 x 68 )
        │     302
        │  −  272          ( 4 x 68 )
        │     300
        │  −  272          ( 4 x 68 )
        │     285
        │  −  272          ( 4 x 68 )
```
Remainder -->   13

Divide, Multiply, Subtract, Bring down, Repeat

Divide 68 into 642 (= 9)
Multiply 9 times 68 (= 612)
Subtract 612 from 642 (= 30)
Bring down the 2

Divide 68 into 302 (= 4)
Multiply 4 times 68 (= 272)
Subtract 272 from 302 (= 30)
Bring down the 0

Divide 68 into 300 (= 4)
Multiply 4 times 68 (= 272)
Subtract 272 from 300 (= 28)
Bring down the 5

Divide 68 into 285 (= 4)
Multiply 4 times 68 (= 272)
Subtract 272 from 285 (= 13)
Done. No more numbers to bring down.

---

(3)

```
              19325 R0
        ┌─────────────
    23  │ 444475
        │  −  23           ( 1 x 23 )
        │     214
        │  −  207          ( 9 x 23 )
        │     74
        │  −  69           ( 3 x 23 )
        │     57
        │  −  46           ( 2 x 23 )
        │     115
        │  −  115          ( 5 x 23 )
```
Remainder -->   0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 23 into 44 (= 1)
Multiply 1 times 23 (= 23)
Subtract 23 from 44 (= 21)
Bring down the 4

Divide 23 into 214 (= 9)
Multiply 9 times 23 (= 207)
Subtract 207 from 214 (= 7)
Bring down the 4

Divide 23 into 74 (= 3)
Multiply 3 times 23 (= 69)
Subtract 69 from 74 (= 5)
Bring down the 7

Divide 23 into 57 (= 2)
Multiply 2 times 23 (= 46)
Subtract 46 from 57 (= 11)
Bring down the 5

Divide 23 into 115 (= 5)
Multiply 5 times 23 (= 115)
Subtract 115 from 115 (= 0)
Done. No more numbers to bring down.