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)

$$859 \overline{)813250}$$

(2)

$$536 \overline{)551783}$$

(3)

$$530 \overline{)625701}$$

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)

```
              946 R636
      ┌──────────
859 │ 813250
    −  7731          ( 9 x 859 )
      ──────
       4015
    −  3436          ( 4 x 859 )
      ──────
       5790
    −  5154          ( 6 x 859 )
      ──────
Remainder -->   636
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 859 into 8132 (= 9)
Multiply 9 times 859 (= 7731)
Subtract 7731 from 8132 (= 401)
Bring down the 5

Divide 859 into 4015 (= 4)
Multiply 4 times 859 (= 3436)
Subtract 3436 from 4015 (= 579)
Bring down the 0

Divide 859 into 5790 (= 6)
Multiply 6 times 859 (= 5154)
Subtract 5154 from 5790 (= 636)
Done. No more numbers to bring down.

(2)

```
             1029 R239
      ┌──────────
536 │ 551783
    −  536           ( 1 x 536 )
      ──────
        157
    −    0           ( 0 x 536 )
      ──────
       1578
    −  1072          ( 2 x 536 )
      ──────
       5063
    −  4824          ( 9 x 536 )
      ──────
Remainder -->   239
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 536 into 551 (= 1)
Multiply 1 times 536 (= 536)
Subtract 536 from 551 (= 15)
Bring down the 7

Divide 536 into 157 (= 0)
Multiply 0 times 536 (= 0)
Subtract 0 from 157 (= 157)
Bring down the 8

Divide 536 into 1578 (= 2)
Multiply 2 times 536 (= 1072)
Subtract 1072 from 1578 (= 506)
Bring down the 3

Divide 536 into 5063 (= 9)
Multiply 9 times 536 (= 4824)
Subtract 4824 from 5063 (= 239)
Done. No more numbers to bring down.

(3)

```
             1180 R301
      ┌──────────
530 │ 625701
    −  530           ( 1 x 530 )
      ──────
        957
    −  530           ( 1 x 530 )
      ──────
       4270
    −  4240          ( 8 x 530 )
      ──────
        301
    −    0           ( 0 x 530 )
      ──────
Remainder -->   301
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 530 into 625 (= 1)
Multiply 1 times 530 (= 530)
Subtract 530 from 625 (= 95)
Bring down the 7

Divide 530 into 957 (= 1)
Multiply 1 times 530 (= 530)
Subtract 530 from 957 (= 427)
Bring down the 0

Divide 530 into 4270 (= 8)
Multiply 8 times 530 (= 4240)
Subtract 4240 from 4270 (= 30)
Bring down the 1

Divide 530 into 301 (= 0)
Multiply 0 times 530 (= 0)
Subtract 0 from 301 (= 301)
Done. No more numbers to bring down.