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)

$$81 \overline{\smash{)}974}$$

(2)

$$70 \overline{\smash{)}580}$$

(3)

$$44 \overline{\smash{)}970}$$

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)

```
              12 R2
        _____
   81 | 974
        -  81              ( 1 x 81 )
          _____
           164
        -  162             ( 2 x 81 )
          _____
```
Remainder -->   2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 81 into 97 (= 1)
Multiply 1 times 81 (= 81)
Subtract 81 from 97 (= 16)
Bring down the 4

Divide 81 into 164 (= 2)
Multiply 2 times 81 (= 162)
Subtract 162 from 164 (= 2)
Done. No more numbers to bring down.

---

(2)

```
               8 R20
        _____
   70 | 580
        -  560             ( 8 x 70 )
          _____
```
Remainder -->   20

Divide, Multiply, Subtract, Bring down, Repeat

Divide 70 into 580 (= 8)
Multiply 8 times 70 (= 560)
Subtract 560 from 580 (= 20)
Done. No more numbers to bring down.

---

(3)

```
              22 R2
        _____
   44 | 970
        -  88              ( 2 x 44 )
          _____
            90
        -  88              ( 2 x 44 )
          _____
```
Remainder -->   2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 44 into 97 (= 2)
Multiply 2 times 44 (= 88)
Subtract 88 from 97 (= 9)
Bring down the 0

Divide 44 into 90 (= 2)
Multiply 2 times 44 (= 88)
Subtract 88 from 90 (= 2)
Done. No more numbers to bring down.