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)

$9\overline{)550}$

(2)

$6\overline{)652}$

(3)

$3\overline{)602}$

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

(1)

```
      61 R1
   ---------
9 | 550
  - 54          ( 6 x 9 )
  ----
    10
  - 9           ( 1 x 9 )
  ---
    1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 55 (= 6)
Multiply 6 times 9 (= 54)
Subtract 54 from 55 (= 1)
Bring down the 0

Divide 9 into 10 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 10 (= 1)
Done. No more numbers to bring down.

(2)

```
      108 R4
   ----------
6 | 652
  - 6           ( 1 x 6 )
  ---
    05
  - 0           ( 0 x 6 )
  ---
    52
  - 48          ( 8 x 6 )
  ----
    4
```

Remainder --> 4

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 6 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 5

Divide 6 into 05 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 05 (= 5)
Bring down the 2

Divide 6 into 52 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 52 (= 4)
Done. No more numbers to bring down.

(3)

```
      200 R2
   ----------
3 | 602
  - 6           ( 2 x 3 )
  ---
    00
  - 0           ( 0 x 3 )
  ---
    02
  - 0           ( 0 x 3 )
  ---
    2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 6 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 0

Divide 3 into 00 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 00 (= 0)
Bring down the 2

Divide 3 into 02 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 02 (= 2)
Done. No more numbers to bring down.