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)

$7 \overline{)451}$

(2)

$3 \overline{)243}$

(3)

$9 \overline{)464}$

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

(1)
```
        64 R3
    ┌─────────
  7 │ 451
    −  42          ( 6 x 7 )
    ─────────
       31
    −  28          ( 4 x 7 )
    ─────────
```
Remainder -->   3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 45 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 45 (= 3)
Bring down the 1

Divide 7 into 31 (= 4)
Multiply 4 times 7 (= 28)
Subtract 28 from 31 (= 3)
Done. No more numbers to bring down.

(2)
```
        81 R0
    ┌─────────
  3 │ 243
    −  24          ( 8 x 3 )
    ─────────
       03
    −   3          ( 1 x 3 )
    ─────────
```
Remainder -->   0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 24 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 3

Divide 3 into 03 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 03 (= 0)
Done. No more numbers to bring down.

(3)
```
        51 R5
    ┌─────────
  9 │ 464
    −  45          ( 5 x 9 )
    ─────────
       14
    −   9          ( 1 x 9 )
    ─────────
```
Remainder -->   5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 46 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 46 (= 1)
Bring down the 4

Divide 9 into 14 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 14 (= 5)
Done. No more numbers to bring down.