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)

$28\overline{)412}$

(2)

$49\overline{)166}$

(3)

$25\overline{)309}$

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

(1)

```
      14 R20
   ┌──────
28 │ 412
   - 28          ( 1 x 28 )
   ──────
     132
   - 112         ( 4 x 28 )
   ──────
Remainder -->  20
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 28 into 41 (= 1)
Multiply 1 times 28 (= 28)
Subtract 28 from 41 (= 13)
Bring down the 2

Divide 28 into 132 (= 4)
Multiply 4 times 28 (= 112)
Subtract 112 from 132 (= 20)
Done. No more numbers to bring down.

(2)

```
      3 R19
   ┌──────
49 │ 166
   - 147         ( 3 x 49 )
   ──────
Remainder -->  19
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 49 into 166 (= 3)
Multiply 3 times 49 (= 147)
Subtract 147 from 166 (= 19)
Done. No more numbers to bring down.

(3)

```
      12 R9
   ┌──────
25 │ 309
   - 25          ( 1 x 25 )
   ──────
     59
   - 50          ( 2 x 25 )
   ──────
Remainder -->  9
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 25 into 30 (= 1)
Multiply 1 times 25 (= 25)
Subtract 25 from 30 (= 5)
Bring down the 9

Divide 25 into 59 (= 2)
Multiply 2 times 25 (= 50)
Subtract 50 from 59 (= 9)
Done. No more numbers to bring down.