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)

$$531 \overline{)1688}$$

(2)

$$117 \overline{)2528}$$

(3)

$$699 \overline{)2356}$$

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

(1)

```
      3 R95
531 | 1688
    - 1593      ( 3 x 531 )
      95
```

Remainder --> 95

Divide, Multiply, Subtract, Bring down, Repeat

Divide 531 into 1688 (= 3)
Multiply 3 times 531 (= 1593)
Subtract 1593 from 1688 (= 95)
Done. No more numbers to bring down.

(2)

```
      21 R71
117 | 2528
    - 234       ( 2 x 117 )
      188
    - 117       ( 1 x 117 )
      71
```

Remainder --> 71

Divide, Multiply, Subtract, Bring down, Repeat

Divide 117 into 252 (= 2)
Multiply 2 times 117 (= 234)
Subtract 234 from 252 (= 18)
Bring down the 8

Divide 117 into 188 (= 1)
Multiply 1 times 117 (= 117)
Subtract 117 from 188 (= 71)
Done. No more numbers to bring down.

(3)

```
      3 R259
699 | 2356
    - 2097      ( 3 x 699 )
      259
```

Remainder --> 259

Divide, Multiply, Subtract, Bring down, Repeat

Divide 699 into 2356 (= 3)
Multiply 3 times 699 (= 2097)
Subtract 2097 from 2356 (= 259)
Done. No more numbers to bring down.