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)

$$317 \overline{)14529}$$

(2)

$$846 \overline{)15189}$$

(3)

$$523 \overline{)20643}$$

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

(1)

```
      45 R264
317 | 14529
     - 1268      ( 4 x 317 )
       1849
     - 1585      ( 5 x 317 )
        264
```

Remainder --> 264

Divide, Multiply, Subtract, Bring down, Repeat

Divide 317 into 1452 (= 4)
Multiply 4 times 317 (= 1268)
Subtract 1268 from 1452 (= 184)
Bring down the 9

Divide 317 into 1849 (= 5)
Multiply 5 times 317 (= 1585)
Subtract 1585 from 1849 (= 264)
Done. No more numbers to bring down.

(2)

```
      17 R807
846 | 15189
     - 846       ( 1 x 846 )
       6729
     - 5922      ( 7 x 846 )
        807
```

Remainder --> 807

Divide, Multiply, Subtract, Bring down, Repeat

Divide 846 into 1518 (= 1)
Multiply 1 times 846 (= 846)
Subtract 846 from 1518 (= 672)
Bring down the 9

Divide 846 into 6729 (= 7)
Multiply 7 times 846 (= 5922)
Subtract 5922 from 6729 (= 807)
Done. No more numbers to bring down.

(3)

```
      39 R246
523 | 20643
     - 1569      ( 3 x 523 )
       4953
     - 4707      ( 9 x 523 )
        246
```

Remainder --> 246

Divide, Multiply, Subtract, Bring down, Repeat

Divide 523 into 2064 (= 3)
Multiply 3 times 523 (= 1569)
Subtract 1569 from 2064 (= 495)
Bring down the 3

Divide 523 into 4953 (= 9)
Multiply 9 times 523 (= 4707)
Subtract 4707 from 4953 (= 246)
Done. No more numbers to bring down.