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)

$$94\overline{)86741}$$

(2)

$$28\overline{)71779}$$

(3)

$$42\overline{)58981}$$

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

(1)

```
        922 R73
   94 | 86741
     - 846          ( 9 x 94 )
        214
      - 188         ( 2 x 94 )
         261
       - 188        ( 2 x 94 )
Remainder -->  73
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 94 into 867 (= 9)
Multiply 9 times 94 (= 846)
Subtract 846 from 867 (= 21)
Bring down the 4

Divide 94 into 214 (= 2)
Multiply 2 times 94 (= 188)
Subtract 188 from 214 (= 26)
Bring down the 1

Divide 94 into 261 (= 2)
Multiply 2 times 94 (= 188)
Subtract 188 from 261 (= 73)
Done. No more numbers to bring down.

(2)

```
        2563 R15
   28 | 71779
      - 56          ( 2 x 28 )
        157
      - 140         ( 5 x 28 )
         177
       - 168        ( 6 x 28 )
           99
         - 84       ( 3 x 28 )
Remainder -->  15
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 28 into 71 (= 2)
Multiply 2 times 28 (= 56)
Subtract 56 from 71 (= 15)
Bring down the 7

Divide 28 into 157 (= 5)
Multiply 5 times 28 (= 140)
Subtract 140 from 157 (= 17)
Bring down the 7

Divide 28 into 177 (= 6)
Multiply 6 times 28 (= 168)
Subtract 168 from 177 (= 9)
Bring down the 9

Divide 28 into 99 (= 3)
Multiply 3 times 28 (= 84)
Subtract 84 from 99 (= 15)
Done. No more numbers to bring down.

(3)

```
        1404 R13
   42 | 58981
      - 42          ( 1 x 42 )
        169
      - 168         ( 4 x 42 )
          18
         - 0        ( 0 x 42 )
          181
        - 168       ( 4 x 42 )
Remainder -->  13
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 42 into 58 (= 1)
Multiply 1 times 42 (= 42)
Subtract 42 from 58 (= 16)
Bring down the 9

Divide 42 into 169 (= 4)
Multiply 4 times 42 (= 168)
Subtract 168 from 169 (= 1)
Bring down the 8

Divide 42 into 18 (= 0)
Multiply 0 times 42 (= 0)
Subtract 0 from 18 (= 18)
Bring down the 1

Divide 42 into 181 (= 4)
Multiply 4 times 42 (= 168)
Subtract 168 from 181 (= 13)
Done. No more numbers to bring down.