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)

$$96 \overline{)440954}$$

(2)

$$42 \overline{)539777}$$

(3)

$$36 \overline{)515177}$$

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

(1)

```
      4593 R26
  96 | 440954
     - 384        ( 4 x 96 )
       569
     - 480        ( 5 x 96 )
       895
     - 864        ( 9 x 96 )
         314
       - 288      ( 3 x 96 )
Remainder -->  26
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 96 into 440 (= 4)
Multiply 4 times 96 (= 384)
Subtract 384 from 440 (= 56)
Bring down the 9

Divide 96 into 569 (= 5)
Multiply 5 times 96 (= 480)
Subtract 480 from 569 (= 89)
Bring down the 5

Divide 96 into 895 (= 9)
Multiply 9 times 96 (= 864)
Subtract 864 from 895 (= 31)
Bring down the 4

Divide 96 into 314 (= 3)
Multiply 3 times 96 (= 288)
Subtract 288 from 314 (= 26)
Done. No more numbers to bring down.

(2)

```
      12851 R35
  42 | 539777
     - 42         ( 1 x 42 )
       119
     - 84         ( 2 x 42 )
       357
     - 336        ( 8 x 42 )
         217
       - 210      ( 5 x 42 )
           77
         - 42     ( 1 x 42 )
Remainder -->  35
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 42 into 53 (= 1)
Multiply 1 times 42 (= 42)
Subtract 42 from 53 (= 11)
Bring down the 9

Divide 42 into 119 (= 2)
Multiply 2 times 42 (= 84)
Subtract 84 from 119 (= 35)
Bring down the 7

Divide 42 into 357 (= 8)
Multiply 8 times 42 (= 336)
Subtract 336 from 357 (= 21)
Bring down the 7

Divide 42 into 217 (= 5)
Multiply 5 times 42 (= 210)
Subtract 210 from 217 (= 7)
Bring down the 7

Divide 42 into 77 (= 1)
Multiply 1 times 42 (= 42)
Subtract 42 from 77 (= 35)
Done. No more numbers to bring down.

(3)

```
      14310 R17
  36 | 515177
     - 36         ( 1 x 36 )
       155
     - 144        ( 4 x 36 )
       111
     - 108        ( 3 x 36 )
          37
        - 36      ( 1 x 36 )
            17
          - 0     ( 0 x 36 )
Remainder -->  17
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 36 into 51 (= 1)
Multiply 1 times 36 (= 36)
Subtract 36 from 51 (= 15)
Bring down the 5

Divide 36 into 155 (= 4)
Multiply 4 times 36 (= 144)
Subtract 144 from 155 (= 11)
Bring down the 1

Divide 36 into 111 (= 3)
Multiply 3 times 36 (= 108)
Subtract 108 from 111 (= 3)
Bring down the 7

Divide 36 into 37 (= 1)
Multiply 1 times 36 (= 36)
Subtract 36 from 37 (= 1)
Bring down the 7

Divide 36 into 17 (= 0)
Multiply 0 times 36 (= 0)
Subtract 0 from 17 (= 17)
Done. No more numbers to bring down.