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)

$$40 \overline{)6192131}$$

(2)

$$74 \overline{)1922555}$$

(3)

$$93 \overline{)4348967}$$

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

(1)

```
      154803 R11
   ---------------
40 | 6192131
     - 40          ( 1 x 40 )
     ----
      219
     - 200         ( 5 x 40 )
     -----
       192
      - 160        ( 4 x 40 )
      -----
        321
       - 320       ( 8 x 40 )
       -----
          13
        -  0       ( 0 x 40 )
        ----
          131
        - 120       ( 3 x 40 )
        -----
Remainder -->  11
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 40 into 61 (= 1)
Multiply 1 times 40 (= 40)
Subtract 40 from 61 (= 21)
Bring down the 9

Divide 40 into 219 (= 5)
Multiply 5 times 40 (= 200)
Subtract 200 from 219 (= 19)
Bring down the 2

Divide 40 into 192 (= 4)
Multiply 4 times 40 (= 160)
Subtract 160 from 192 (= 32)
Bring down the 1

Divide 40 into 321 (= 8)
Multiply 8 times 40 (= 320)
Subtract 320 from 321 (= 1)
Bring down the 3

Divide 40 into 13 (= 0)
Multiply 0 times 40 (= 0)
Subtract 0 from 13 (= 13)
Bring down the 1

Divide 40 into 131 (= 3)
Multiply 3 times 40 (= 120)
Subtract 120 from 131 (= 11)
Done. No more numbers to bring down.

(2)

```
      25980 R35
   ---------------
74 | 1922555
     - 148         ( 2 x 74 )
     ----
      442
     - 370         ( 5 x 74 )
     -----
       725
      - 666        ( 9 x 74 )
      -----
        595
       - 592       ( 8 x 74 )
       -----
          35
        -  0       ( 0 x 74 )
        ----
Remainder -->  35
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 74 into 192 (= 2)
Multiply 2 times 74 (= 148)
Subtract 148 from 192 (= 44)
Bring down the 2

Divide 74 into 442 (= 5)
Multiply 5 times 74 (= 370)
Subtract 370 from 442 (= 72)
Bring down the 5

Divide 74 into 725 (= 9)
Multiply 9 times 74 (= 666)
Subtract 666 from 725 (= 59)
Bring down the 5

Divide 74 into 595 (= 8)
Multiply 8 times 74 (= 592)
Subtract 592 from 595 (= 3)
Bring down the 5

Divide 74 into 35 (= 0)
Multiply 0 times 74 (= 0)
Subtract 0 from 35 (= 35)
Done. No more numbers to bring down.

(3)

```
      46763 R8
   ---------------
93 | 4348967
     - 372         ( 4 x 93 )
     ----
      628
     - 558         ( 6 x 93 )
     -----
       709
      - 651        ( 7 x 93 )
      -----
        586
       - 558       ( 6 x 93 )
       -----
          287
        - 279       ( 3 x 93 )
        -----
Remainder -->  8
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 93 into 434 (= 4)
Multiply 4 times 93 (= 372)
Subtract 372 from 434 (= 62)
Bring down the 8

Divide 93 into 628 (= 6)
Multiply 6 times 93 (= 558)
Subtract 558 from 628 (= 70)
Bring down the 9

Divide 93 into 709 (= 7)
Multiply 7 times 93 (= 651)
Subtract 651 from 709 (= 58)
Bring down the 6

Divide 93 into 586 (= 6)
Multiply 6 times 93 (= 558)
Subtract 558 from 586 (= 28)
Bring down the 7

Divide 93 into 287 (= 3)
Multiply 3 times 93 (= 279)
Subtract 279 from 287 (= 8)
Done. No more numbers to bring down.