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)

60 | 6827361

(2)

43 | 8255591

(3)

34 | 4325375

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

(1)

```
                113789 R21
     60 | 6827361
        -  60          ( 1 x 60 )
           82
        -  60          ( 1 x 60 )
           227
        - 180          ( 3 x 60 )
           473
        - 420          ( 7 x 60 )
           536
        - 480          ( 8 x 60 )
           561
        - 540          ( 9 x 60 )
Remainder -->   21
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 60 into 68 (= 1)
Multiply 1 times 60 (= 60)
Subtract 60 from 68 (= 8)
Bring down the 2

Divide 60 into 82 (= 1)
Multiply 1 times 60 (= 60)
Subtract 60 from 82 (= 22)
Bring down the 7

Divide 60 into 227 (= 3)
Multiply 3 times 60 (= 180)
Subtract 180 from 227 (= 47)
Bring down the 3

Divide 60 into 473 (= 7)
Multiply 7 times 60 (= 420)
Subtract 420 from 473 (= 53)
Bring down the 6

Divide 60 into 536 (= 8)
Multiply 8 times 60 (= 480)
Subtract 480 from 536 (= 56)
Bring down the 1

Divide 60 into 561 (= 9)
Multiply 9 times 60 (= 540)
Subtract 540 from 561 (= 21)
Done. No more numbers to bring down.

(2)

```
                191990 R21
     43 | 8255591
        -  43          ( 1 x 43 )
           395
        - 387          ( 9 x 43 )
           85
        -  43          ( 1 x 43 )
           425
        - 387          ( 9 x 43 )
           389
        - 387          ( 9 x 43 )
           21
        -   0          ( 0 x 43 )
Remainder -->   21
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 43 into 82 (= 1)
Multiply 1 times 43 (= 43)
Subtract 43 from 82 (= 39)
Bring down the 5

Divide 43 into 395 (= 9)
Multiply 9 times 43 (= 387)
Subtract 387 from 395 (= 8)
Bring down the 5

Divide 43 into 85 (= 1)
Multiply 1 times 43 (= 43)
Subtract 43 from 85 (= 42)
Bring down the 5

Divide 43 into 425 (= 9)
Multiply 9 times 43 (= 387)
Subtract 387 from 425 (= 38)
Bring down the 9

Divide 43 into 389 (= 9)
Multiply 9 times 43 (= 387)
Subtract 387 from 389 (= 2)
Bring down the 1

Divide 43 into 21 (= 0)
Multiply 0 times 43 (= 0)
Subtract 0 from 21 (= 21)
Done. No more numbers to bring down.

(3)

```
                127216 R31
     34 | 4325375
        -  34          ( 1 x 34 )
           92
        -  68          ( 2 x 34 )
           245
        - 238          ( 7 x 34 )
           73
        -  68          ( 2 x 34 )
           57
        -  34          ( 1 x 34 )
           235
        - 204          ( 6 x 34 )
Remainder -->   31
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 34 into 43 (= 1)
Multiply 1 times 34 (= 34)
Subtract 34 from 43 (= 9)
Bring down the 2

Divide 34 into 92 (= 2)
Multiply 2 times 34 (= 68)
Subtract 68 from 92 (= 24)
Bring down the 5

Divide 34 into 245 (= 7)
Multiply 7 times 34 (= 238)
Subtract 238 from 245 (= 7)
Bring down the 3

Divide 34 into 73 (= 2)
Multiply 2 times 34 (= 68)
Subtract 68 from 73 (= 5)
Bring down the 7

Divide 34 into 57 (= 1)
Multiply 1 times 34 (= 34)
Subtract 34 from 57 (= 23)
Bring down the 5

Divide 34 into 235 (= 6)
Multiply 6 times 34 (= 204)
Subtract 204 from 235 (= 31)
Done. No more numbers to bring down.