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)

$$91 \overline{)\,8895775}$$

(2)

$$63 \overline{)\,1692652}$$

(3)

$$62 \overline{)\,4457829}$$

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

(1)

```
      97755 R70
91 | 8895775
   - 819          ( 9 x 91 )
     705
   - 637          ( 7 x 91 )
     687
   - 637          ( 7 x 91 )
     507
   - 455          ( 5 x 91 )
     525
   - 455          ( 5 x 91 )
      70
```

Remainder --> 70

Divide, Multiply, Subtract, Bring down, Repeat

Divide 91 into 889 (= 9)
Multiply 9 times 91 (= 819)
Subtract 819 from 889 (= 70)
Bring down the 5

Divide 91 into 705 (= 7)
Multiply 7 times 91 (= 637)
Subtract 637 from 705 (= 68)
Bring down the 7

Divide 91 into 687 (= 7)
Multiply 7 times 91 (= 637)
Subtract 637 from 687 (= 50)
Bring down the 7

Divide 91 into 507 (= 5)
Multiply 5 times 91 (= 455)
Subtract 455 from 507 (= 52)
Bring down the 5

Divide 91 into 525 (= 5)
Multiply 5 times 91 (= 455)
Subtract 455 from 525 (= 70)
Done. No more numbers to bring down.

(2)

```
      26867 R31
63 | 1692652
   - 126          ( 2 x 63 )
     432
   - 378          ( 6 x 63 )
     546
   - 504          ( 8 x 63 )
     425
   - 378          ( 6 x 63 )
     472
   - 441          ( 7 x 63 )
      31
```

Remainder --> 31

Divide, Multiply, Subtract, Bring down, Repeat

Divide 63 into 169 (= 2)
Multiply 2 times 63 (= 126)
Subtract 126 from 169 (= 43)
Bring down the 2

Divide 63 into 432 (= 6)
Multiply 6 times 63 (= 378)
Subtract 378 from 432 (= 54)
Bring down the 6

Divide 63 into 546 (= 8)
Multiply 8 times 63 (= 504)
Subtract 504 from 546 (= 42)
Bring down the 5

Divide 63 into 425 (= 6)
Multiply 6 times 63 (= 378)
Subtract 378 from 425 (= 47)
Bring down the 2

Divide 63 into 472 (= 7)
Multiply 7 times 63 (= 441)
Subtract 441 from 472 (= 31)
Done. No more numbers to bring down.

(3)

```
      71900 R29
62 | 4457829
   - 434          ( 7 x 62 )
     117
   - 62           ( 1 x 62 )
     558
   - 558          ( 9 x 62 )
      02
   - 0            ( 0 x 62 )
      29
   - 0            ( 0 x 62 )
      29
```

Remainder --> 29

Divide, Multiply, Subtract, Bring down, Repeat

Divide 62 into 445 (= 7)
Multiply 7 times 62 (= 434)
Subtract 434 from 445 (= 11)
Bring down the 7

Divide 62 into 117 (= 1)
Multiply 1 times 62 (= 62)
Subtract 62 from 117 (= 55)
Bring down the 8

Divide 62 into 558 (= 9)
Multiply 9 times 62 (= 558)
Subtract 558 from 558 (= 0)
Bring down the 2

Divide 62 into 02 (= 0)
Multiply 0 times 62 (= 0)
Subtract 0 from 02 (= 2)
Bring down the 9

Divide 62 into 29 (= 0)
Multiply 0 times 62 (= 0)
Subtract 0 from 29 (= 29)
Done. No more numbers to bring down.