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)

$63\overline{)60277}$

(2)

$31\overline{)39718}$

(3)

$83\overline{)34715}$

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

(1)

```
      956 R49
   ┌─────
63 │ 60277
   - 567        ( 9 x 63 )
     357
   - 315        ( 5 x 63 )
     427
   - 378        ( 6 x 63 )
Remainder -->   49
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 63 into 602 (= 9)
Multiply 9 times 63 (= 567)
Subtract 567 from 602 (= 35)
Bring down the 7

Divide 63 into 357 (= 5)
Multiply 5 times 63 (= 315)
Subtract 315 from 357 (= 42)
Bring down the 7

Divide 63 into 427 (= 6)
Multiply 6 times 63 (= 378)
Subtract 378 from 427 (= 49)
Done. No more numbers to bring down.

(2)

```
     1281 R7
   ┌─────
31 │ 39718
   - 31         ( 1 x 31 )
     87
   - 62         ( 2 x 31 )
     251
   - 248        ( 8 x 31 )
      38
   - 31         ( 1 x 31 )
Remainder -->    7
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 31 into 39 (= 1)
Multiply 1 times 31 (= 31)
Subtract 31 from 39 (= 8)
Bring down the 7

Divide 31 into 87 (= 2)
Multiply 2 times 31 (= 62)
Subtract 62 from 87 (= 25)
Bring down the 1

Divide 31 into 251 (= 8)
Multiply 8 times 31 (= 248)
Subtract 248 from 251 (= 3)
Bring down the 8

Divide 31 into 38 (= 1)
Multiply 1 times 31 (= 31)
Subtract 31 from 38 (= 7)
Done. No more numbers to bring down.

(3)

```
     418 R21
   ┌─────
83 │ 34715
   - 332        ( 4 x 83 )
     151
   - 83         ( 1 x 83 )
     685
   - 664        ( 8 x 83 )
Remainder -->   21
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 83 into 347 (= 4)
Multiply 4 times 83 (= 332)
Subtract 332 from 347 (= 15)
Bring down the 1

Divide 83 into 151 (= 1)
Multiply 1 times 83 (= 83)
Subtract 83 from 151 (= 68)
Bring down the 5

Divide 83 into 685 (= 8)
Multiply 8 times 83 (= 664)
Subtract 664 from 685 (= 21)
Done. No more numbers to bring down.