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)

$$86 \overline{)272575}$$

(2)

$$17 \overline{)677901}$$

(3)

$$62 \overline{)128193}$$

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

(1)

```
       3169 R41
86 | 272575
   - 258        ( 3 x 86 )
     145
    - 86        ( 1 x 86 )
      597
    - 516       ( 6 x 86 )
       815
     - 774      ( 9 x 86 )
Remainder -->  41
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 86 into 272 (= 3)
Multiply 3 times 86 (= 258)
Subtract 258 from 272 (= 14)
Bring down the 5

Divide 86 into 145 (= 1)
Multiply 1 times 86 (= 86)
Subtract 86 from 145 (= 59)
Bring down the 7

Divide 86 into 597 (= 6)
Multiply 6 times 86 (= 516)
Subtract 516 from 597 (= 81)
Bring down the 5

Divide 86 into 815 (= 9)
Multiply 9 times 86 (= 774)
Subtract 774 from 815 (= 41)
Done. No more numbers to bring down.

(2)

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       39876 R9
17 | 677901
   - 51         ( 3 x 17 )
     167
   - 153        ( 9 x 17 )
      149
    - 136       ( 8 x 17 )
       130
     - 119      ( 7 x 17 )
        111
      - 102     ( 6 x 17 )
Remainder -->    9
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 17 into 67 (= 3)
Multiply 3 times 17 (= 51)
Subtract 51 from 67 (= 16)
Bring down the 7

Divide 17 into 167 (= 9)
Multiply 9 times 17 (= 153)
Subtract 153 from 167 (= 14)
Bring down the 9

Divide 17 into 149 (= 8)
Multiply 8 times 17 (= 136)
Subtract 136 from 149 (= 13)
Bring down the 0

Divide 17 into 130 (= 7)
Multiply 7 times 17 (= 119)
Subtract 119 from 130 (= 11)
Bring down the 1

Divide 17 into 111 (= 6)
Multiply 6 times 17 (= 102)
Subtract 102 from 111 (= 9)
Done. No more numbers to bring down.

(3)

```
       2067 R39
62 | 128193
   - 124        ( 2 x 62 )
      41
     - 0        ( 0 x 62 )
      419
    - 372       ( 6 x 62 )
       473
     - 434      ( 7 x 62 )
Remainder -->  39
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 62 into 128 (= 2)
Multiply 2 times 62 (= 124)
Subtract 124 from 128 (= 4)
Bring down the 1

Divide 62 into 41 (= 0)
Multiply 0 times 62 (= 0)
Subtract 0 from 41 (= 41)
Bring down the 9

Divide 62 into 419 (= 6)
Multiply 6 times 62 (= 372)
Subtract 372 from 419 (= 47)
Bring down the 3

Divide 62 into 473 (= 7)
Multiply 7 times 62 (= 434)
Subtract 434 from 473 (= 39)
Done. No more numbers to bring down.