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)

717 | 218887

(2)

583 | 119796

(3)

538 | 980344

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

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(1)

```
              305 R202
      _____
717 | 218887
    -   2151          ( 3 x 717 )
        _____
         378
       -   0            ( 0 x 717 )
          ____
         3787
      -  3585          ( 5 x 717 )
         _____
Remainder -->  202
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 717 into 2188 (= 3)
Multiply 3 times 717 (= 2151)
Subtract 2151 from 2188 (= 37)
Bring down the 8

Divide 717 into 378 (= 0)
Multiply 0 times 717 (= 0)
Subtract 0 from 378 (= 378)
Bring down the 7

Divide 717 into 3787 (= 5)
Multiply 5 times 717 (= 3585)
Subtract 3585 from 3787 (= 202)
Done. No more numbers to bring down.

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(2)

```
              205 R281
      _____
583 | 119796
    -   1166          ( 2 x 583 )
        _____
         319
       -   0            ( 0 x 583 )
          ____
         3196
      -  2915          ( 5 x 583 )
         _____
Remainder -->  281
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 583 into 1197 (= 2)
Multiply 2 times 583 (= 1166)
Subtract 1166 from 1197 (= 31)
Bring down the 9

Divide 583 into 319 (= 0)
Multiply 0 times 583 (= 0)
Subtract 0 from 319 (= 319)
Bring down the 6

Divide 583 into 3196 (= 5)
Multiply 5 times 583 (= 2915)
Subtract 2915 from 3196 (= 281)
Done. No more numbers to bring down.

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(3)

```
              1822 R108
      _____
538 | 980344
    -   538           ( 1 x 538 )
        _____
        4423
      -  4304          ( 8 x 538 )
         _____
         1194
      -  1076          ( 2 x 538 )
         _____
         1184
       -  1076         ( 2 x 538 )
          _____
Remainder -->  108
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 538 into 980 (= 1)
Multiply 1 times 538 (= 538)
Subtract 538 from 980 (= 442)
Bring down the 3

Divide 538 into 4423 (= 8)
Multiply 8 times 538 (= 4304)
Subtract 4304 from 4423 (= 119)
Bring down the 4

Divide 538 into 1194 (= 2)
Multiply 2 times 538 (= 1076)
Subtract 1076 from 1194 (= 118)
Bring down the 4

Divide 538 into 1184 (= 2)
Multiply 2 times 538 (= 1076)
Subtract 1076 from 1184 (= 108)
Done. No more numbers to bring down.