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)

422 | 886590

(2)

129 | 381377

(3)

151 | 341465

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

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(1)

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         2100 R390
422 | 886590
    -  844          ( 2 x 422 )
       425
    -  422          ( 1 x 422 )
        39
    -    0          ( 0 x 422 )
       390
    -    0          ( 0 x 422 )
Remainder -->  390
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 422 into 886 (= 2)
Multiply 2 times 422 (= 844)
Subtract 844 from 886 (= 42)
Bring down the 5

Divide 422 into 425 (= 1)
Multiply 1 times 422 (= 422)
Subtract 422 from 425 (= 3)
Bring down the 9

Divide 422 into 39 (= 0)
Multiply 0 times 422 (= 0)
Subtract 0 from 39 (= 39)
Bring down the 0

Divide 422 into 390 (= 0)
Multiply 0 times 422 (= 0)
Subtract 0 from 390 (= 390)
Done. No more numbers to bring down.

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(2)

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         2956 R53
129 | 381377
    -  258          ( 2 x 129 )
      1233
    - 1161          ( 9 x 129 )
       727
    -  645          ( 5 x 129 )
       827
    -  774          ( 6 x 129 )
Remainder -->   53
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 129 into 381 (= 2)
Multiply 2 times 129 (= 258)
Subtract 258 from 381 (= 123)
Bring down the 3

Divide 129 into 1233 (= 9)
Multiply 9 times 129 (= 1161)
Subtract 1161 from 1233 (= 72)
Bring down the 7

Divide 129 into 727 (= 5)
Multiply 5 times 129 (= 645)
Subtract 645 from 727 (= 82)
Bring down the 7

Divide 129 into 827 (= 6)
Multiply 6 times 129 (= 774)
Subtract 774 from 827 (= 53)
Done. No more numbers to bring down.

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(3)

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         2261 R54
151 | 341465
    -  302          ( 2 x 151 )
       394
    -  302          ( 2 x 151 )
       926
    -  906          ( 6 x 151 )
       205
    -  151          ( 1 x 151 )
Remainder -->   54
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 151 into 341 (= 2)
Multiply 2 times 151 (= 302)
Subtract 302 from 341 (= 39)
Bring down the 4

Divide 151 into 394 (= 2)
Multiply 2 times 151 (= 302)
Subtract 302 from 394 (= 92)
Bring down the 6

Divide 151 into 926 (= 6)
Multiply 6 times 151 (= 906)
Subtract 906 from 926 (= 20)
Bring down the 5

Divide 151 into 205 (= 1)
Multiply 1 times 151 (= 151)
Subtract 151 from 205 (= 54)
Done. No more numbers to bring down.