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)

$$12 \overline{)56090}$$

(2)

$$13 \overline{)11149}$$

(3)

$$95 \overline{)18215}$$

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

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(1)

```
              4674 R2
        _____
   12 | 56090
        − 48            ( 4 x 12 )
          ____
           80
         − 72           ( 6 x 12 )
           ____
            89
          − 84          ( 7 x 12 )
            ____
             50
           − 48         ( 4 x 12 )
             ____
  Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 12 into 56 (= 4)
Multiply 4 times 12 (= 48)
Subtract 48 from 56 (= 8)
Bring down the 0

Divide 12 into 80 (= 6)
Multiply 6 times 12 (= 72)
Subtract 72 from 80 (= 8)
Bring down the 9

Divide 12 into 89 (= 7)
Multiply 7 times 12 (= 84)
Subtract 84 from 89 (= 5)
Bring down the 0

Divide 12 into 50 (= 4)
Multiply 4 times 12 (= 48)
Subtract 48 from 50 (= 2)
Done. No more numbers to bring down.

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(2)

```
               857 R8
        _____
   13 | 11149
        − 104           ( 8 x 13 )
          ____
           74
         − 65           ( 5 x 13 )
           ____
            99
          − 91          ( 7 x 13 )
            ____
  Remainder -->   8
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 13 into 111 (= 8)
Multiply 8 times 13 (= 104)
Subtract 104 from 111 (= 7)
Bring down the 4

Divide 13 into 74 (= 5)
Multiply 5 times 13 (= 65)
Subtract 65 from 74 (= 9)
Bring down the 9

Divide 13 into 99 (= 7)
Multiply 7 times 13 (= 91)
Subtract 91 from 99 (= 8)
Done. No more numbers to bring down.

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(3)

```
               191 R70
        _____
   95 | 18215
        − 95            ( 1 x 95 )
          ____
          871
        − 855           ( 9 x 95 )
          ____
          165
        − 95            ( 1 x 95 )
          ____
  Remainder -->   70
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 95 into 182 (= 1)
Multiply 1 times 95 (= 95)
Subtract 95 from 182 (= 87)
Bring down the 1

Divide 95 into 871 (= 9)
Multiply 9 times 95 (= 855)
Subtract 855 from 871 (= 16)
Bring down the 5

Divide 95 into 165 (= 1)
Multiply 1 times 95 (= 95)
Subtract 95 from 165 (= 70)
Done. No more numbers to bring down.