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)

$$56\overline{)15685}$$

(2)

$$26\overline{)22156}$$

(3)

$$12\overline{)12189}$$

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

(1)

```
            280 R5
       _____
   56 | 15685
        - 112          ( 2 x 56 )
        _____
          448
        - 448          ( 8 x 56 )
        _____
           05
         -  0           ( 0 x 56 )
         _____
Remainder -->    5
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 56 into 156 (= 2)
Multiply 2 times 56 (= 112)
Subtract 112 from 156 (= 44)
Bring down the 8

Divide 56 into 448 (= 8)
Multiply 8 times 56 (= 448)
Subtract 448 from 448 (= 0)
Bring down the 5

Divide 56 into 05 (= 0)
Multiply 0 times 56 (= 0)
Subtract 0 from 05 (= 5)
Done. No more numbers to bring down.

(2)

```
            852 R4
       _____
   26 | 22156
        - 208          ( 8 x 26 )
        _____
          135
        - 130          ( 5 x 26 )
        _____
           56
         - 52           ( 2 x 26 )
         _____
Remainder -->    4
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 26 into 221 (= 8)
Multiply 8 times 26 (= 208)
Subtract 208 from 221 (= 13)
Bring down the 5

Divide 26 into 135 (= 5)
Multiply 5 times 26 (= 130)
Subtract 130 from 135 (= 5)
Bring down the 6

Divide 26 into 56 (= 2)
Multiply 2 times 26 (= 52)
Subtract 52 from 56 (= 4)
Done. No more numbers to bring down.

(3)

```
           1015 R9
       _____
   12 | 12189
        - 12           ( 1 x 12 )
        _____
          01
        -  0           ( 0 x 12 )
        _____
          18
        - 12           ( 1 x 12 )
        _____
          69
        - 60           ( 5 x 12 )
        _____
Remainder -->    9
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 12 into 12 (= 1)
Multiply 1 times 12 (= 12)
Subtract 12 from 12 (= 0)
Bring down the 1

Divide 12 into 01 (= 0)
Multiply 0 times 12 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 8

Divide 12 into 18 (= 1)
Multiply 1 times 12 (= 12)
Subtract 12 from 18 (= 6)
Bring down the 9

Divide 12 into 69 (= 5)
Multiply 5 times 12 (= 60)
Subtract 60 from 69 (= 9)
Done. No more numbers to bring down.