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)

$$8\overline{)26852}$$

(2)

$$6\overline{)64965}$$

(3)

$$4\overline{)28780}$$

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

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(1)

```
           3356 R4
       _____
    8 | 26852
       -  24          ( 3 x 8 )
          28
       -  24          ( 3 x 8 )
          45
       -  40          ( 5 x 8 )
          52
       -  48          ( 6 x 8 )
```
Remainder --> 4

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 26 (= 3)
Multiply 3 times 8 (= 24)
Subtract 24 from 26 (= 2)
Bring down the 8

Divide 8 into 28 (= 3)
Multiply 3 times 8 (= 24)
Subtract 24 from 28 (= 4)
Bring down the 5

Divide 8 into 45 (= 5)
Multiply 5 times 8 (= 40)
Subtract 40 from 45 (= 5)
Bring down the 2

Divide 8 into 52 (= 6)
Multiply 6 times 8 (= 48)
Subtract 48 from 52 (= 4)
Done. No more numbers to bring down.

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(2)

```
          10827 R3
       _____
    6 | 64965
       -  6           ( 1 x 6 )
          04
       -  0           ( 0 x 6 )
          49
       -  48          ( 8 x 6 )
          16
       -  12          ( 2 x 6 )
          45
       -  42          ( 7 x 6 )
```
Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 6 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 4

Divide 6 into 04 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 04 (= 4)
Bring down the 9

Divide 6 into 49 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 49 (= 1)
Bring down the 6

Divide 6 into 16 (= 2)
Multiply 2 times 6 (= 12)
Subtract 12 from 16 (= 4)
Bring down the 5

Divide 6 into 45 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 45 (= 3)
Done. No more numbers to bring down.

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(3)

```
           7195 R0
       _____
    4 | 28780
       -  28          ( 7 x 4 )
          07
       -  4           ( 1 x 4 )
          38
       -  36          ( 9 x 4 )
          20
       -  20          ( 5 x 4 )
```
Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 28 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 28 (= 0)
Bring down the 7

Divide 4 into 07 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 07 (= 3)
Bring down the 8

Divide 4 into 38 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 38 (= 2)
Bring down the 0

Divide 4 into 20 (= 5)
Multiply 5 times 4 (= 20)
Subtract 20 from 20 (= 0)
Done. No more numbers to bring down.