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)

$$6\overline{)42534}$$

(2)

$$6\overline{)93563}$$

(3)

$$9\overline{)40887}$$

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

(1)

```
           7089 R0
      _____
   6 | 42534
      -  42               ( 7 x 6 )
      _____
         05
       -  0                ( 0 x 6 )
       _____
         53
        - 48               ( 8 x 6 )
       _____
           54
         - 54              ( 9 x 6 )
       _____
Remainder -->    0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 42 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 42 (= 0)
Bring down the 5

Divide 6 into 05 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 05 (= 5)
Bring down the 3

Divide 6 into 53 (= 8)
Multiply 8 times 6 (= 48)
Subtract 48 from 53 (= 5)
Bring down the 4

Divide 6 into 54 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 54 (= 0)
Done. No more numbers to bring down.

(2)

```
           15593 R5
      _____
   6 | 93563
      -  6                ( 1 x 6 )
      _____
         33
       - 30                ( 5 x 6 )
       _____
         35
       - 30                ( 5 x 6 )
       _____
          56
        - 54               ( 9 x 6 )
       _____
          23
        - 18               ( 3 x 6 )
       _____
Remainder -->   5
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 9 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 9 (= 3)
Bring down the 3

Divide 6 into 33 (= 5)
Multiply 5 times 6 (= 30)
Subtract 30 from 33 (= 3)
Bring down the 5

Divide 6 into 35 (= 5)
Multiply 5 times 6 (= 30)
Subtract 30 from 35 (= 5)
Bring down the 6

Divide 6 into 56 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 56 (= 2)
Bring down the 3

Divide 6 into 23 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 23 (= 5)
Done. No more numbers to bring down.

(3)

```
           4543 R0
      _____
   9 | 40887
      -  36               ( 4 x 9 )
      _____
         48
       - 45                ( 5 x 9 )
       _____
         38
       - 36                ( 4 x 9 )
       _____
          27
        - 27               ( 3 x 9 )
       _____
Remainder -->    0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 40 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 40 (= 4)
Bring down the 8

Divide 9 into 48 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 48 (= 3)
Bring down the 8

Divide 9 into 38 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 38 (= 2)
Bring down the 7

Divide 9 into 27 (= 3)
Multiply 3 times 9 (= 27)
Subtract 27 from 27 (= 0)
Done. No more numbers to bring down.