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)

$$9 \overline{)6522698}$$

(2)

$$2 \overline{)1351296}$$

(3)

$$6 \overline{)5703581}$$

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

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(1)

```
        724744 R2
    9 | 6522698
      -  63          ( 7 x 9 )
         22
       -  18          ( 2 x 9 )
          42
        -  36          ( 4 x 9 )
           66
         -  63          ( 7 x 9 )
            39
          -  36          ( 4 x 9 )
             38
           -  36          ( 4 x 9 )
```
Remainder -->   2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 65 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 65 (= 2)
Bring down the 2

Divide 9 into 22 (= 2)
Multiply 2 times 9 (= 18)
Subtract 18 from 22 (= 4)
Bring down the 2

Divide 9 into 42 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 42 (= 6)
Bring down the 6

Divide 9 into 66 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 66 (= 3)
Bring down the 9

Divide 9 into 39 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 39 (= 3)
Bring down the 8

Divide 9 into 38 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 38 (= 2)
Done. No more numbers to bring down.

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(2)

```
        675648 R0
    2 | 1351296
      -  12          ( 6 x 2 )
         15
       -  14          ( 7 x 2 )
          11
        -  10          ( 5 x 2 )
           12
         -  12          ( 6 x 2 )
            09
          -  8          ( 4 x 2 )
            16
          -  16          ( 8 x 2 )
```
Remainder -->   0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 13 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 13 (= 1)
Bring down the 5

Divide 2 into 15 (= 7)
Multiply 7 times 2 (= 14)
Subtract 14 from 15 (= 1)
Bring down the 1

Divide 2 into 11 (= 5)
Multiply 5 times 2 (= 10)
Subtract 10 from 11 (= 1)
Bring down the 2

Divide 2 into 12 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 12 (= 0)
Bring down the 9

Divide 2 into 09 (= 4)
Multiply 4 times 2 (= 8)
Subtract 8 from 09 (= 1)
Bring down the 6

Divide 2 into 16 (= 8)
Multiply 8 times 2 (= 16)
Subtract 16 from 16 (= 0)
Done. No more numbers to bring down.

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(3)

```
        950596 R5
    6 | 5703581
      -  54          ( 9 x 6 )
         30
       -  30          ( 5 x 6 )
          03
        -  0          ( 0 x 6 )
           35
         -  30          ( 5 x 6 )
            58
          -  54          ( 9 x 6 )
            41
          -  36          ( 6 x 6 )
```
Remainder -->   5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 57 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 57 (= 3)
Bring down the 0

Divide 6 into 30 (= 5)
Multiply 5 times 6 (= 30)
Subtract 30 from 30 (= 0)
Bring down the 3

Divide 6 into 03 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 5

Divide 6 into 35 (= 5)
Multiply 5 times 6 (= 30)
Subtract 30 from 35 (= 5)
Bring down the 8

Divide 6 into 58 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 58 (= 4)
Bring down the 1

Divide 6 into 41 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 41 (= 5)
Done. No more numbers to bring down.