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)

$$9 \overline{)4593185}$$

(2)

$$3 \overline{)8450852}$$

(3)

$$2 \overline{)6692904}$$

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Steps: (1) Divide   (2) Multiply   (3) Subtract   (4) Bring down the next number   (5) Repeat if needed

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

(1)

```
            510353 R8
   9 | 4593185
      −  45            ( 5 x 9 )
         09
      −   9            ( 1 x 9 )
         03
      −   0            ( 0 x 9 )
         31
      −  27            ( 3 x 9 )
         48
      −  45            ( 5 x 9 )
         35
      −  27            ( 3 x 9 )
Remainder -->    8
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 45 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 45 (= 0)
Bring down the 9

Divide 9 into 09 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 09 (= 0)
Bring down the 3

Divide 9 into 03 (= 0)
Multiply 0 times 9 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 1

Divide 9 into 31 (= 3)
Multiply 3 times 9 (= 27)
Subtract 27 from 31 (= 4)
Bring down the 8

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

Divide 9 into 35 (= 3)
Multiply 3 times 9 (= 27)
Subtract 27 from 35 (= 8)
Done. No more numbers to bring down.

(2)

```
            2816950 R2
   3 | 8450852
      −  6             ( 2 x 3 )
         24
      −  24            ( 8 x 3 )
         05
      −   3            ( 1 x 3 )
         20
      −  18            ( 6 x 3 )
         28
      −  27            ( 9 x 3 )
         15
      −  15            ( 5 x 3 )
         02
      −   0            ( 0 x 3 )
Remainder -->    2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 8 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 8 (= 2)
Bring down the 4

Divide 3 into 24 (= 8)
Multiply 8 times 3 (= 24)
Subtract 24 from 24 (= 0)
Bring down the 5

Divide 3 into 05 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 05 (= 2)
Bring down the 0

Divide 3 into 20 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 20 (= 2)
Bring down the 8

Divide 3 into 28 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 28 (= 1)
Bring down the 5

Divide 3 into 15 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 15 (= 0)
Bring down the 2

Divide 3 into 02 (= 0)
Multiply 0 times 3 (= 0)
Subtract 0 from 02 (= 2)
Done. No more numbers to bring down.

(3)

```
            3346452 R0
   2 | 6692904
      −  6             ( 3 x 2 )
         06
      −   6            ( 3 x 2 )
         09
      −   8            ( 4 x 2 )
         12
      −  12            ( 6 x 2 )
         09
      −   8            ( 4 x 2 )
         10
      −  10            ( 5 x 2 )
         04
      −   4            ( 2 x 2 )
Remainder -->    0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2 into 6 (= 3)
Multiply 3 times 2 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 6

Divide 2 into 06 (= 3)
Multiply 3 times 2 (= 6)
Subtract 6 from 06 (= 0)
Bring down the 9

Divide 2 into 09 (= 4)
Multiply 4 times 2 (= 8)
Subtract 8 from 09 (= 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 0

Divide 2 into 10 (= 5)
Multiply 5 times 2 (= 10)
Subtract 10 from 10 (= 0)
Bring down the 4

Divide 2 into 04 (= 2)
Multiply 2 times 2 (= 4)
Subtract 4 from 04 (= 0)
Done. No more numbers to bring down.