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)

$$7 \overline{)44319}$$

(2)

$$3 \overline{)17683}$$

(3)

$$6 \overline{)63906}$$

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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)

```
        6331 R2
      _____
   7 | 44319
      - 42              ( 6 x 7 )
      _____
        23
      - 21              ( 3 x 7 )
      _____
        21
      - 21              ( 3 x 7 )
      _____
          09
        -  7            ( 1 x 7 )
      _____
Remainder -->   2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 44 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 44 (= 2)
Bring down the 3

Divide 7 into 23 (= 3)
Multiply 3 times 7 (= 21)
Subtract 21 from 23 (= 2)
Bring down the 1

Divide 7 into 21 (= 3)
Multiply 3 times 7 (= 21)
Subtract 21 from 21 (= 0)
Bring down the 9

Divide 7 into 09 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 09 (= 2)
Done. No more numbers to bring down.

(2)

```
        5894 R1
      _____
   3 | 17683
      - 15              ( 5 x 3 )
      _____
        26
      - 24              ( 8 x 3 )
      _____
        28
      - 27              ( 9 x 3 )
      _____
        13
      - 12              ( 4 x 3 )
      _____
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3 into 17 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 17 (= 2)
Bring down the 6

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

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

Divide 3 into 13 (= 4)
Multiply 4 times 3 (= 12)
Subtract 12 from 13 (= 1)
Done. No more numbers to bring down.

(3)

```
        10651 R0
      _____
   6 | 63906
      - 6               ( 1 x 6 )
      _____
        03
      -  0              ( 0 x 6 )
      _____
        39
      - 36              ( 6 x 6 )
      _____
        30
      - 30              ( 5 x 6 )
      _____
        06
      -  6              ( 1 x 6 )
      _____
Remainder -->   0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 6 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 6 (= 0)
Bring down the 3

Divide 6 into 03 (= 0)
Multiply 0 times 6 (= 0)
Subtract 0 from 03 (= 3)
Bring down the 9

Divide 6 into 39 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 39 (= 3)
Bring down the 0

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

Divide 6 into 06 (= 1)
Multiply 1 times 6 (= 6)
Subtract 6 from 06 (= 0)
Done. No more numbers to bring down.