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)

$$9\overline{)637085}$$

(2)

$$7\overline{)749883}$$

(3)

$$7\overline{)638417}$$

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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"

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(1)

```
              70787 R2
        ┌──────────────
      9 │ 637085
        - 63              ( 7 x 9 )
          ──
          07
        -  0              ( 0 x 9 )
          ──
          70
        - 63              ( 7 x 9 )
          ──
          78
        - 72              ( 8 x 9 )
          ──
          65
        - 63              ( 7 x 9 )
          ──
Remainder -->    2
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 63 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 63 (= 0)
Bring down the 7

Divide 9 into 07 (= 0)
Multiply 0 times 9 (= 0)
Subtract 0 from 07 (= 7)
Bring down the 0

Divide 9 into 70 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 70 (= 7)
Bring down the 8

Divide 9 into 78 (= 8)
Multiply 8 times 9 (= 72)
Subtract 72 from 78 (= 6)
Bring down the 5

Divide 9 into 65 (= 7)
Multiply 7 times 9 (= 63)
Subtract 63 from 65 (= 2)
Done. No more numbers to bring down.

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(2)

```
             107126 R1
        ┌──────────────
      7 │ 749883
        -  7             ( 1 x 7 )
          ──
          04
        -  0             ( 0 x 7 )
          ──
          49
        - 49             ( 7 x 7 )
          ──
          08
        -  7             ( 1 x 7 )
          ──
          18
        - 14             ( 2 x 7 )
          ──
          43
        - 42             ( 6 x 7 )
          ──
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 7 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 7 (= 0)
Bring down the 4

Divide 7 into 04 (= 0)
Multiply 0 times 7 (= 0)
Subtract 0 from 04 (= 4)
Bring down the 9

Divide 7 into 49 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 49 (= 0)
Bring down the 8

Divide 7 into 08 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 08 (= 1)
Bring down the 8

Divide 7 into 18 (= 2)
Multiply 2 times 7 (= 14)
Subtract 14 from 18 (= 4)
Bring down the 3

Divide 7 into 43 (= 6)
Multiply 6 times 7 (= 42)
Subtract 42 from 43 (= 1)
Done. No more numbers to bring down.

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(3)

```
              91202 R3
        ┌──────────────
      7 │ 638417
        - 63             ( 9 x 7 )
          ──
          08
        -  7             ( 1 x 7 )
          ──
          14
        - 14             ( 2 x 7 )
          ──
          01
        -  0             ( 0 x 7 )
          ──
          17
        - 14             ( 2 x 7 )
          ──
Remainder -->    3
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 63 (= 9)
Multiply 9 times 7 (= 63)
Subtract 63 from 63 (= 0)
Bring down the 8

Divide 7 into 08 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 08 (= 1)
Bring down the 4

Divide 7 into 14 (= 2)
Multiply 2 times 7 (= 14)
Subtract 14 from 14 (= 0)
Bring down the 1

Divide 7 into 01 (= 0)
Multiply 0 times 7 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 7

Divide 7 into 17 (= 2)
Multiply 2 times 7 (= 14)
Subtract 14 from 17 (= 3)
Done. No more numbers to bring down.