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)

$$7 \overline{)2252402}$$

(2)

$$7 \overline{)1099599}$$

(3)

$$4 \overline{)3658713}$$

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

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(1)

```
              321771 R5
         ┌──────────────
     7   │ 2252402
       −  21              ( 3 x 7 )
         ─────
          15
         − 14             ( 2 x 7 )
         ─────
          12
         −  7             ( 1 x 7 )
         ─────
          54
         − 49             ( 7 x 7 )
         ─────
          50
         − 49             ( 7 x 7 )
         ─────
          12
         −  7             ( 1 x 7 )
         ─────
```
Remainder -->   5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 22 (= 3)
Multiply 3 times 7 (= 21)
Subtract 21 from 22 (= 1)
Bring down the 5

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

Divide 7 into 12 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 12 (= 5)
Bring down the 4

Divide 7 into 54 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 54 (= 5)
Bring down the 0

Divide 7 into 50 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 50 (= 1)
Bring down the 2

Divide 7 into 12 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 12 (= 5)
Done. No more numbers to bring down.

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(2)

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              157085 R4
         ┌──────────────
     7   │ 1099599
       −  7              ( 1 x 7 )
         ─────
          39
         − 35             ( 5 x 7 )
         ─────
          49
         − 49             ( 7 x 7 )
         ─────
          05
         −  0             ( 0 x 7 )
         ─────
          59
         − 56             ( 8 x 7 )
         ─────
          39
         − 35             ( 5 x 7 )
         ─────
```
Remainder -->   4

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 10 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 10 (= 3)
Bring down the 9

Divide 7 into 39 (= 5)
Multiply 5 times 7 (= 35)
Subtract 35 from 39 (= 4)
Bring down the 9

Divide 7 into 49 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 49 (= 0)
Bring down the 5

Divide 7 into 05 (= 0)
Multiply 0 times 7 (= 0)
Subtract 0 from 05 (= 5)
Bring down the 9

Divide 7 into 59 (= 8)
Multiply 8 times 7 (= 56)
Subtract 56 from 59 (= 3)
Bring down the 9

Divide 7 into 39 (= 5)
Multiply 5 times 7 (= 35)
Subtract 35 from 39 (= 4)
Done. No more numbers to bring down.

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(3)

```
              914678 R1
         ┌──────────────
     4   │ 3658713
       −  36             ( 9 x 4 )
         ─────
          05
         −  4             ( 1 x 4 )
         ─────
          18
         − 16             ( 4 x 4 )
         ─────
          27
         − 24             ( 6 x 4 )
         ─────
          31
         − 28             ( 7 x 4 )
         ─────
          33
         − 32             ( 8 x 4 )
         ─────
```
Remainder -->   1

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 36 (= 9)
Multiply 9 times 4 (= 36)
Subtract 36 from 36 (= 0)
Bring down the 5

Divide 4 into 05 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 05 (= 1)
Bring down the 8

Divide 4 into 18 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 18 (= 2)
Bring down the 7

Divide 4 into 27 (= 6)
Multiply 6 times 4 (= 24)
Subtract 24 from 27 (= 3)
Bring down the 1

Divide 4 into 31 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 31 (= 3)
Bring down the 3

Divide 4 into 33 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 33 (= 1)
Done. No more numbers to bring down.