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 | 55608

(2)

9 | 30795

(3)

4 | 28738

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

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(1)
```
          6178 R6
      ┌──────────
   9  │ 55608
      -  54          ( 6 x 9 )
        ─────
          16
        -  9          ( 1 x 9 )
          ─────
          70
        - 63          ( 7 x 9 )
          ─────
          78
        - 72          ( 8 x 9 )
```
Remainder -->　　6

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 55 (= 6)
Multiply 6 times 9 (= 54)
Subtract 54 from 55 (= 1)
Bring down the 6

Divide 9 into 16 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 16 (= 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)
Done. No more numbers to bring down.

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(2)
```
          3421 R6
      ┌──────────
   9  │ 30795
      -  27          ( 3 x 9 )
        ─────
          37
        - 36          ( 4 x 9 )
          ─────
          19
        - 18          ( 2 x 9 )
          ─────
          15
        -  9          ( 1 x 9 )
```
Remainder -->　　6

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 30 (= 3)
Multiply 3 times 9 (= 27)
Subtract 27 from 30 (= 3)
Bring down the 7

Divide 9 into 37 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 37 (= 1)
Bring down the 9

Divide 9 into 19 (= 2)
Multiply 2 times 9 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 5

Divide 9 into 15 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 15 (= 6)
Done. No more numbers to bring down.

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(3)
```
          7184 R2
      ┌──────────
   4  │ 28738
      -  28          ( 7 x 4 )
        ─────
          07
        -  4          ( 1 x 4 )
          ─────
          33
        - 32          ( 8 x 4 )
          ─────
          18
        - 16          ( 4 x 4 )
```
Remainder -->　　2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 28 (= 7)
Multiply 7 times 4 (= 28)
Subtract 28 from 28 (= 0)
Bring down the 7

Divide 4 into 07 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 07 (= 3)
Bring down the 3

Divide 4 into 33 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 33 (= 1)
Bring down the 8

Divide 4 into 18 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 18 (= 2)
Done. No more numbers to bring down.