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)

$3\overline{)2217377}$

(2)

$2\overline{)1295237}$

(3)

$8\overline{)5900122}$

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

(1)

```
      739125 R2
   3 | 2217377
     - 21          (7x3)
       11
     - 9           (3x3)
       27
     - 27          (9x3)
        03
      - 3          (1x3)
         07
       - 6        (2x3)
          17
        - 15       (5x3)
           2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 3 into 11 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 11 (= 2)
Bring down the 7

Divide 3 into 27 (= 9)
Multiply 9 times 3 (= 27)
Subtract 27 from 27 (= 0)
Bring down the 3

Divide 3 into 03 (= 1)
Multiply 1 times 3 (= 3)
Subtract 3 from 03 (= 0)
Bring down the 7

Divide 3 into 07 (= 2)
Multiply 2 times 3 (= 6)
Subtract 6 from 07 (= 1)
Bring down the 7

Divide 3 into 17 (= 5)
Multiply 5 times 3 (= 15)
Subtract 15 from 17 (= 2)
Done. No more numbers to bring down.

(2)

```
      647618 R1
   2 | 1295237
     - 12          (6x2)
       09
     - 8           (4x2)
       15
     - 14          (7x2)
        12
      - 12         (6x2)
         03
       - 2        (1x2)
          17
        - 16       (8x2)
           1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

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 5

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

Divide 2 into 12 (= 6)
Multiply 6 times 2 (= 12)
Subtract 12 from 12 (= 0)
Bring down the 3

Divide 2 into 03 (= 1)
Multiply 1 times 2 (= 2)
Subtract 2 from 03 (= 1)
Bring down the 7

Divide 2 into 17 (= 8)
Multiply 8 times 2 (= 16)
Subtract 16 from 17 (= 1)
Done. No more numbers to bring down.

(3)

```
      737515 R2
   8 | 5900122
     - 56          (7x8)
       30
     - 24          (3x8)
       60
     - 56          (7x8)
        41
      - 40         (5x8)
         12
       - 8        (1x8)
          42
        - 40       (5x8)
           2
```

Remainder --> 2

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 59 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 59 (= 3)
Bring down the 0

Divide 8 into 30 (= 3)
Multiply 3 times 8 (= 24)
Subtract 24 from 30 (= 6)
Bring down the 0

Divide 8 into 60 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 60 (= 4)
Bring down the 1

Divide 8 into 41 (= 5)
Multiply 5 times 8 (= 40)
Subtract 40 from 41 (= 1)
Bring down the 2

Divide 8 into 12 (= 1)
Multiply 1 times 8 (= 8)
Subtract 8 from 12 (= 4)
Bring down the 2

Divide 8 into 42 (= 5)
Multiply 5 times 8 (= 40)
Subtract 40 from 42 (= 2)
Done. No more numbers to bring down.