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)

22) 411982

(2)

81) 479905

(3)

10) 631765

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

(1)

```
              18726 R10
     22 | 411982
        -  22           ( 1 x 22 )
           191
        -  176          ( 8 x 22 )
           159
        -  154          ( 7 x 22 )
            58
        -   44          ( 2 x 22 )
           142
        -  132          ( 6 x 22 )
Remainder -->   10
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 22 into 41 (= 1)
Multiply 1 times 22 (= 22)
Subtract 22 from 41 (= 19)
Bring down the 1

Divide 22 into 191 (= 8)
Multiply 8 times 22 (= 176)
Subtract 176 from 191 (= 15)
Bring down the 9

Divide 22 into 159 (= 7)
Multiply 7 times 22 (= 154)
Subtract 154 from 159 (= 5)
Bring down the 8

Divide 22 into 58 (= 2)
Multiply 2 times 22 (= 44)
Subtract 44 from 58 (= 14)
Bring down the 2

Divide 22 into 142 (= 6)
Multiply 6 times 22 (= 132)
Subtract 132 from 142 (= 10)
Done. No more numbers to bring down.

(2)

```
              5924 R61
     81 | 479905
        -  405          ( 5 x 81 )
           749
        -  729          ( 9 x 81 )
           200
        -  162          ( 2 x 81 )
           385
        -  324          ( 4 x 81 )
Remainder -->   61
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 81 into 479 (= 5)
Multiply 5 times 81 (= 405)
Subtract 405 from 479 (= 74)
Bring down the 9

Divide 81 into 749 (= 9)
Multiply 9 times 81 (= 729)
Subtract 729 from 749 (= 20)
Bring down the 0

Divide 81 into 200 (= 2)
Multiply 2 times 81 (= 162)
Subtract 162 from 200 (= 38)
Bring down the 5

Divide 81 into 385 (= 4)
Multiply 4 times 81 (= 324)
Subtract 324 from 385 (= 61)
Done. No more numbers to bring down.

(3)

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              63176 R5
     10 | 631765
        -  60           ( 6 x 10 )
           31
        -  30           ( 3 x 10 )
           17
        -  10           ( 1 x 10 )
           76
        -  70           ( 7 x 10 )
           65
        -  60           ( 6 x 10 )
Remainder -->   5
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 10 into 63 (= 6)
Multiply 6 times 10 (= 60)
Subtract 60 from 63 (= 3)
Bring down the 1

Divide 10 into 31 (= 3)
Multiply 3 times 10 (= 30)
Subtract 30 from 31 (= 1)
Bring down the 7

Divide 10 into 17 (= 1)
Multiply 1 times 10 (= 10)
Subtract 10 from 17 (= 7)
Bring down the 6

Divide 10 into 76 (= 7)
Multiply 7 times 10 (= 70)
Subtract 70 from 76 (= 6)
Bring down the 5

Divide 10 into 65 (= 6)
Multiply 6 times 10 (= 60)
Subtract 60 from 65 (= 5)
Done. No more numbers to bring down.