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)

$3\overline{)73990}$

(2)

$4\overline{)59420}$

(3)

$7\overline{)49950}$

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

(1)

```
      24663 R1
   3 | 73990
     - 6          ( 2 x 3 )
       13
     - 12         ( 4 x 3 )
       19
     - 18         ( 6 x 3 )
        19
     - 18         ( 6 x 3 )
        10
      - 9         ( 3 x 3 )
        1
```

Remainder --> 1

Divide, Multiply, Subtract, Bring down, Repeat

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

Divide 3 into 13 (= 4)
Multiply 4 times 3 (= 12)
Subtract 12 from 13 (= 1)
Bring down the 9

Divide 3 into 19 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 9

Divide 3 into 19 (= 6)
Multiply 6 times 3 (= 18)
Subtract 18 from 19 (= 1)
Bring down the 0

Divide 3 into 10 (= 3)
Multiply 3 times 3 (= 9)
Subtract 9 from 10 (= 1)
Done. No more numbers to bring down.

(2)

```
      14855 R0
   4 | 59420
     - 4          ( 1 x 4 )
       19
     - 16         ( 4 x 4 )
       34
     - 32         ( 8 x 4 )
        22
     - 20         ( 5 x 4 )
        20
     - 20         ( 5 x 4 )
        0
```

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 5 (= 1)
Multiply 1 times 4 (= 4)
Subtract 4 from 5 (= 1)
Bring down the 9

Divide 4 into 19 (= 4)
Multiply 4 times 4 (= 16)
Subtract 16 from 19 (= 3)
Bring down the 4

Divide 4 into 34 (= 8)
Multiply 8 times 4 (= 32)
Subtract 32 from 34 (= 2)
Bring down the 2

Divide 4 into 22 (= 5)
Multiply 5 times 4 (= 20)
Subtract 20 from 22 (= 2)
Bring down the 0

Divide 4 into 20 (= 5)
Multiply 5 times 4 (= 20)
Subtract 20 from 20 (= 0)
Done. No more numbers to bring down.

(3)

```
      7135 R5
   7 | 49950
     - 49         ( 7 x 7 )
       09
     - 7          ( 1 x 7 )
       25
     - 21         ( 3 x 7 )
        40
     - 35         ( 5 x 7 )
        5
```

Remainder --> 5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 49 (= 7)
Multiply 7 times 7 (= 49)
Subtract 49 from 49 (= 0)
Bring down the 9

Divide 7 into 09 (= 1)
Multiply 1 times 7 (= 7)
Subtract 7 from 09 (= 2)
Bring down the 5

Divide 7 into 25 (= 3)
Multiply 3 times 7 (= 21)
Subtract 21 from 25 (= 4)
Bring down the 0

Divide 7 into 40 (= 5)
Multiply 5 times 7 (= 35)
Subtract 35 from 40 (= 5)
Done. No more numbers to bring down.