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)

$$36 \overline{)4928520}$$

(2)

$$16 \overline{)5969591}$$

(3)

$$85 \overline{)4324984}$$

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

(1)

```
      136903 R12
   36 | 4928520
      - 36          ( 1 x 36 )
        132
      - 108         ( 3 x 36 )
          248
        - 216       ( 6 x 36 )
            325
          - 324     ( 9 x 36 )
              12
            - 0     ( 0 x 36 )
              120
            - 108   ( 3 x 36 )
Remainder -->  12
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 36 into 49 (= 1)
Multiply 1 times 36 (= 36)
Subtract 36 from 49 (= 13)
Bring down the 2

Divide 36 into 132 (= 3)
Multiply 3 times 36 (= 108)
Subtract 108 from 132 (= 24)
Bring down the 8

Divide 36 into 248 (= 6)
Multiply 6 times 36 (= 216)
Subtract 216 from 248 (= 32)
Bring down the 5

Divide 36 into 325 (= 9)
Multiply 9 times 36 (= 324)
Subtract 324 from 325 (= 1)
Bring down the 2

Divide 36 into 12 (= 0)
Multiply 0 times 36 (= 0)
Subtract 0 from 12 (= 12)
Bring down the 0

Divide 36 into 120 (= 3)
Multiply 3 times 36 (= 108)
Subtract 108 from 120 (= 12)
Done. No more numbers to bring down.

(2)

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      373099 R7
   16 | 5969591
      - 48          ( 3 x 16 )
        116
      - 112         ( 7 x 16 )
          49
        - 48        ( 3 x 16 )
            15
          - 0       ( 0 x 16 )
            159
          - 144     ( 9 x 16 )
              151
            - 144   ( 9 x 16 )
Remainder -->  7
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 16 into 59 (= 3)
Multiply 3 times 16 (= 48)
Subtract 48 from 59 (= 11)
Bring down the 6

Divide 16 into 116 (= 7)
Multiply 7 times 16 (= 112)
Subtract 112 from 116 (= 4)
Bring down the 9

Divide 16 into 49 (= 3)
Multiply 3 times 16 (= 48)
Subtract 48 from 49 (= 1)
Bring down the 5

Divide 16 into 15 (= 0)
Multiply 0 times 16 (= 0)
Subtract 0 from 15 (= 15)
Bring down the 9

Divide 16 into 159 (= 9)
Multiply 9 times 16 (= 144)
Subtract 144 from 159 (= 15)
Bring down the 1

Divide 16 into 151 (= 9)
Multiply 9 times 16 (= 144)
Subtract 144 from 151 (= 7)
Done. No more numbers to bring down.

(3)

```
      50882 R14
   85 | 4324984
      - 425         ( 5 x 85 )
        74
      - 0           ( 0 x 85 )
          749
        - 680       ( 8 x 85 )
            698
          - 680     ( 8 x 85 )
              184
            - 170   ( 2 x 85 )
Remainder -->  14
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 85 into 432 (= 5)
Multiply 5 times 85 (= 425)
Subtract 425 from 432 (= 7)
Bring down the 4

Divide 85 into 74 (= 0)
Multiply 0 times 85 (= 0)
Subtract 0 from 74 (= 74)
Bring down the 9

Divide 85 into 749 (= 8)
Multiply 8 times 85 (= 680)
Subtract 680 from 749 (= 69)
Bring down the 8

Divide 85 into 698 (= 8)
Multiply 8 times 85 (= 680)
Subtract 680 from 698 (= 18)
Bring down the 4

Divide 85 into 184 (= 2)
Multiply 2 times 85 (= 170)
Subtract 170 from 184 (= 14)
Done. No more numbers to bring down.