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)

$$36 \overline{)7214302}$$

(2)

$$92 \overline{)5899368}$$

(3)

$$44 \overline{)8330993}$$

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

(1)

```
      200397 R10
   36 | 7214302
      - 72          ( 2 x 36 )
        01
      - 0           ( 0 x 36 )
        14
      - 0           ( 0 x 36 )
        143
      - 108         ( 3 x 36 )
          350
        - 324       ( 9 x 36 )
            262
        - 252       ( 7 x 36 )
Remainder -->  10
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 36 into 72 (= 2)
Multiply 2 times 36 (= 72)
Subtract 72 from 72 (= 0)
Bring down the 1

Divide 36 into 01 (= 0)
Multiply 0 times 36 (= 0)
Subtract 0 from 01 (= 1)
Bring down the 4

Divide 36 into 14 (= 0)
Multiply 0 times 36 (= 0)
Subtract 0 from 14 (= 14)
Bring down the 3

Divide 36 into 143 (= 3)
Multiply 3 times 36 (= 108)
Subtract 108 from 143 (= 35)
Bring down the 0

Divide 36 into 350 (= 9)
Multiply 9 times 36 (= 324)
Subtract 324 from 350 (= 26)
Bring down the 2

Divide 36 into 262 (= 7)
Multiply 7 times 36 (= 252)
Subtract 252 from 262 (= 10)
Done. No more numbers to bring down.

(2)

```
      64123 R52
   92 | 5899368
      - 552         ( 6 x 92 )
        379
      - 368         ( 4 x 92 )
        113
      - 92          ( 1 x 92 )
        216
      - 184         ( 2 x 92 )
          328
        - 276       ( 3 x 92 )
Remainder -->  52
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 92 into 589 (= 6)
Multiply 6 times 92 (= 552)
Subtract 552 from 589 (= 37)
Bring down the 9

Divide 92 into 379 (= 4)
Multiply 4 times 92 (= 368)
Subtract 368 from 379 (= 11)
Bring down the 3

Divide 92 into 113 (= 1)
Multiply 1 times 92 (= 92)
Subtract 92 from 113 (= 21)
Bring down the 6

Divide 92 into 216 (= 2)
Multiply 2 times 92 (= 184)
Subtract 184 from 216 (= 32)
Bring down the 8

Divide 92 into 328 (= 3)
Multiply 3 times 92 (= 276)
Subtract 276 from 328 (= 52)
Done. No more numbers to bring down.

(3)

```
      189340 R33
   44 | 8330993
      - 44          ( 1 x 44 )
        393
      - 352         ( 8 x 44 )
        410
      - 396         ( 9 x 44 )
        149
      - 132         ( 3 x 44 )
          179
        - 176       ( 4 x 44 )
            33
        - 0         ( 0 x 44 )
Remainder -->  33
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 44 into 83 (= 1)
Multiply 1 times 44 (= 44)
Subtract 44 from 83 (= 39)
Bring down the 3

Divide 44 into 393 (= 8)
Multiply 8 times 44 (= 352)
Subtract 352 from 393 (= 41)
Bring down the 0

Divide 44 into 410 (= 9)
Multiply 9 times 44 (= 396)
Subtract 396 from 410 (= 14)
Bring down the 9

Divide 44 into 149 (= 3)
Multiply 3 times 44 (= 132)
Subtract 132 from 149 (= 17)
Bring down the 9

Divide 44 into 179 (= 4)
Multiply 4 times 44 (= 176)
Subtract 176 from 179 (= 3)
Bring down the 3

Divide 44 into 33 (= 0)
Multiply 0 times 44 (= 0)
Subtract 0 from 33 (= 33)
Done. No more numbers to bring down.