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)

$$49 \overline{|2683}$$

(2)

$$23 \overline{|6544}$$

(3)

$$95 \overline{|2195}$$

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

(1)

```
          54 R37
     _____
49 | 2683
   -  245        ( 5 x 49 )
     _____
      233
   -  196        ( 4 x 49 )
     _____
Remainder -->  37
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 49 into 268 (= 5)
Multiply 5 times 49 (= 245)
Subtract 245 from 268 (= 23)
Bring down the 3

Divide 49 into 233 (= 4)
Multiply 4 times 49 (= 196)
Subtract 196 from 233 (= 37)
Done. No more numbers to bring down.

(2)

```
          284 R12
     _____
23 | 6544
   -  46         ( 2 x 23 )
     _____
      194
   -  184        ( 8 x 23 )
     _____
      104
   -   92        ( 4 x 23 )
     _____
Remainder -->   12
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 23 into 65 (= 2)
Multiply 2 times 23 (= 46)
Subtract 46 from 65 (= 19)
Bring down the 4

Divide 23 into 194 (= 8)
Multiply 8 times 23 (= 184)
Subtract 184 from 194 (= 10)
Bring down the 4

Divide 23 into 104 (= 4)
Multiply 4 times 23 (= 92)
Subtract 92 from 104 (= 12)
Done. No more numbers to bring down.

(3)

```
          23 R10
     _____
95 | 2195
   -  190        ( 2 x 95 )
     _____
      295
   -  285        ( 3 x 95 )
     _____
Remainder -->  10
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 95 into 219 (= 2)
Multiply 2 times 95 (= 190)
Subtract 190 from 219 (= 29)
Bring down the 5

Divide 95 into 295 (= 3)
Multiply 3 times 95 (= 285)
Subtract 285 from 295 (= 10)
Done. No more numbers to bring down.