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)

$$984 \overline{)884434}$$

(2)

$$768 \overline{)724736}$$

(3)

$$627 \overline{)980634}$$

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

(1)

```
          898 R802
    984 | 884434
        - 7872        ( 8 x 984 )
          9723
        - 8856        ( 9 x 984 )
          8674
        - 7872        ( 8 x 984 )
Remainder -->  802
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 984 into 8844 (= 8)
Multiply 8 times 984 (= 7872)
Subtract 7872 from 8844 (= 972)
Bring down the 3

Divide 984 into 9723 (= 9)
Multiply 9 times 984 (= 8856)
Subtract 8856 from 9723 (= 867)
Bring down the 4

Divide 984 into 8674 (= 8)
Multiply 8 times 984 (= 7872)
Subtract 7872 from 8674 (= 802)
Done. No more numbers to bring down.

(2)

```
          943 R512
    768 | 724736
        - 6912        ( 9 x 768 )
          3353
        - 3072        ( 4 x 768 )
          2816
        - 2304        ( 3 x 768 )
Remainder -->  512
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 768 into 7247 (= 9)
Multiply 9 times 768 (= 6912)
Subtract 6912 from 7247 (= 335)
Bring down the 3

Divide 768 into 3353 (= 4)
Multiply 4 times 768 (= 3072)
Subtract 3072 from 3353 (= 281)
Bring down the 6

Divide 768 into 2816 (= 3)
Multiply 3 times 768 (= 2304)
Subtract 2304 from 2816 (= 512)
Done. No more numbers to bring down.

(3)

```
          1564 R6
    627 | 980634
        - 627         ( 1 x 627 )
          3536
        - 3135        ( 5 x 627 )
          4013
        - 3762        ( 6 x 627 )
          2514
        - 2508        ( 4 x 627 )
Remainder -->  6
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 627 into 980 (= 1)
Multiply 1 times 627 (= 627)
Subtract 627 from 980 (= 353)
Bring down the 6

Divide 627 into 3536 (= 5)
Multiply 5 times 627 (= 3135)
Subtract 3135 from 3536 (= 401)
Bring down the 3

Divide 627 into 4013 (= 6)
Multiply 6 times 627 (= 3762)
Subtract 3762 from 4013 (= 251)
Bring down the 4

Divide 627 into 2514 (= 4)
Multiply 4 times 627 (= 2508)
Subtract 2508 from 2514 (= 6)
Done. No more numbers to bring down.