Division Example

Use place value and regrouping to divide 936 by 4.

PROBLEM

936 / 4 = ?

Step-by-step solution

1

Divide the hundreds

4 goes into 9 hundreds twice. One hundred remains.

9 / 4 = 2 remainder 1

2

Regroup as tens

Exchange the remaining hundred for 10 tens; with 3 tens, that makes 13 tens.

13 / 4 = 3 remainder 1

3

Regroup as ones

Exchange the remaining ten for 10 ones; with 6 ones, that makes 16 ones.

16 / 4 = 4

4

Read the quotient

The place-value digits are 2 hundreds, 3 tens, and 4 ones.

936 / 4 = 234

ANSWER

936 / 4 = 234

Check: 234 x 4 = 936.

Use the inverse operation to check the result.