Column Subtraction

2347 - 764 = 1583

Minuend - Subtrahend = Difference

Subtract the ones

7 ones - 4 ones = 3 ones

Subtract the tens

4 - 6 You can't do. You need to exchange 1 hundred for 10 tens.

14 tens - 6 tens = 8 tens

Subtract the hundreds

2 - 7 You can't do.

You need to exchange 1 thousand for 10 hundreds.

12 hundreds - 7 hundreds = 5 hundreds

Subtract the thousands

1 - 0 = 1

Although it doesn't say 0, you have no thousands to subtract from 1 thousand.

Column Addition

Addend + Addend = Sum

Add the ones

5 ones + 9 ones = 14 ones

4

Keep the 4 ones in 14 in the ones column We move the 1 ten in 14 to the tens column

Add the tens

0 tens + 7 tens = 7 tens

8 4

REMEMBER: add the extra tens

7 tens + 1 ten = 8 tens

Add the hundreds

2 hundreds + 8 hundreds = 10 hundreds

084

10 hundreds is the same as 1 thousand. We put a 0 in the hundreds column and move the 1 thousand to the thousand column

⁴⁾ **2** 2 0 5

Add the thousands

2 thousands + 3 thousands = 5 thousands

6084

REMEMBER: Add on the extra thousand 5 thousands + 1 thousand = 6 thousands

Column Multiplication

 $2146 \times 4 = 8584$ Multiplicand × Multiplier = Product

¹⁾ 2146

Multiply the ones by the multiplier

X

 $\frac{4}{4}$ 6 ones x 4 = 24 ones

-Keep the 4 ones in 24 in the ones column, and move the 2 tens to the tens column

2

2) **2 1**

Multiply the tens by the multiplier

2146

 $4 \text{ tens} \times 4 = 16 \text{ tens}$

REMEMBER: Add on the extra tens

8 4

16 tens + 2 tens = 18 tens

We keep the 8 in the tens column and exchange the 10 tens for one hundred.

³⁾ 2 1 4 6

Multiply the hundreds by the multiplier

<u>x 4</u>

1 hundreds \times 4 = 4 hundred

REMEMBER: Add on the extra hundred

4 hundred + 1 hundred = 5 hundreds

⁴⁾ **2** 1 4 6

Multiply the thousand by the multiplier

× 4 8584

2 thousands \times 4 = 8 thousands

Column Multiplication

$$214 \times 14 = 2986$$

Multiplicand × Multiplier = Product

$$\begin{array}{r}
 846 \\
 + 2140 \\
 \hline
 2986
\end{array}$$

Multiply by the ones in the multiplier

Multiply by the multiple of ten in the multiplier REMEMBER: put the 0 in first,

Add the two **products** together,

1) 214

Contracted method

Multiply your number by the ones in the multiplier.

$$4 \times 214 = 856$$

Multiply your number by the multiple of tens in the multiplier.

REMEMBER: put the 0 in first.

$$214 \times 10 = 2140$$

2986

Add the two products together.

Short division (bus stop method)

 $2374 \div 5 = 474 \frac{4}{5}$ Dividend ÷ Divisor = Quotient

Set up your bus stop method.

Start from the left.
How many 5's go into 2? 0
We carry the 2 over to the next column.

How many 5's go into 23? 4 $5 \times 4 = 20$ and there is 3 left over We carry the 3 over to the next column.

4)
$$047$$

 $5 2^2 3^3 7^2 4$

How many 5's go into 37? 7 $7 \times 5 = 35$ and there is 2 left over We carry the 3 over to the next column.

How many 5's go into 24? 4 $5 \times 4 = 20$ and there is 4 left over We have no digits left, so we write remainder 4.

We can convert remainders into a fraction.

There is 4 left out of 5 (the divisor)