

SUBTRACTION

A DEFINITIONS

Definition Subtraction

Subtraction means taking something away. When we subtract, we find out how many are left.

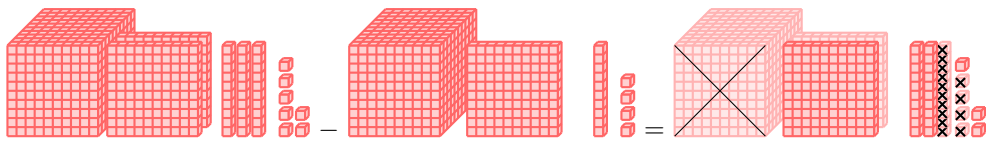
- The $-$ symbol means "subtract."
- The $=$ symbol shows that the two sides are the same.

We can represent subtraction as:

- **Numbers:**

$$1\,237 - 1\,114 = 123$$

- **Cubes:**



- **Words:**

one thousand two hundred thirty-seven minus one thousand one hundred fourteen equals one hundred twenty-three

- **Subtraction Using Columns :**

$$\begin{array}{r} 1\,2\,3\,7 \\ - 1\,1\,1\,4 \\ \hline 1\,2\,3 \end{array}$$

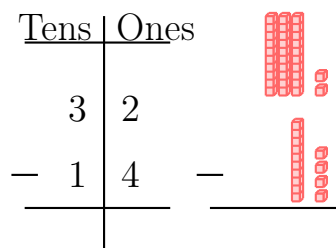
B SUBTRACTION USING COLUMNS

Method Subtraction in Columns with Compensation

To calculate:

$$32 - 14$$

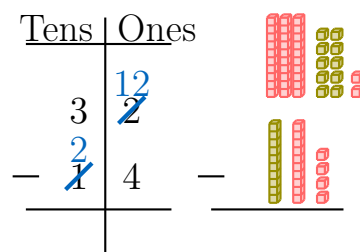
- **Step 1: Set up the subtraction**



- **Step 2: Compensate 1 Ten**

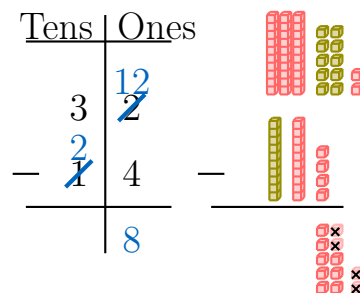
$$2 \text{ ones} - 4 \text{ ones}$$

There are not enough ones. You regroup 10 ones to make it 12. You compensate by adding 1 ten to 14, which makes it 2 tens.



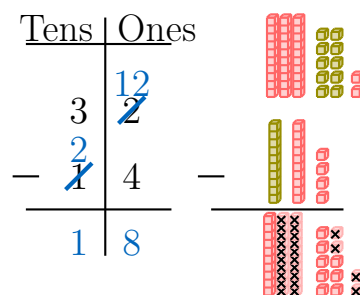
- **Step 3: Subtract the ones**

$$12 \text{ ones} - 4 \text{ ones} = 8 \text{ ones}$$



- **Step 4: Subtract the tens**

$$3 \text{ tens (from 32)} - 1 \text{ ten (from 14)} - 1 \text{ ten (compensation)} = 1 \text{ ten}$$



- **Result:** There is 1 ten and 8 ones. So,

$$32 - 14 = 18$$