

SUBTRACTION WITHIN 100

A WHAT IS SUBTRACTION?

Definition Subtraction

Subtraction means taking an amount away from a group to find out what is left. This result is called the **difference**.

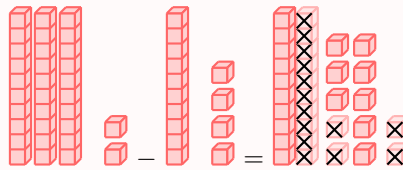
- The **minus sign** ($-$) tells us to subtract.
- The **equals sign** ($=$) shows that both sides have the same value.

We can show "thirty-two minus fourteen equals eighteen" in different ways:

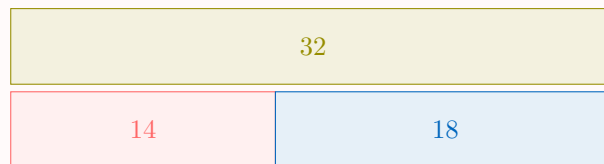
- **With numbers:**

$$32 - 14 = 18$$

- **With cubes:**



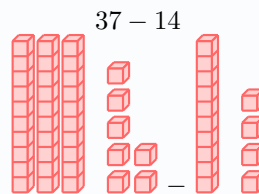
- **With part whole model:**



B SUBTRACTING ONES THEN TENS

Method Subtracting Ones Then Tens Using Cubes

To calculate:



- **Step 1: Subtract the ones**

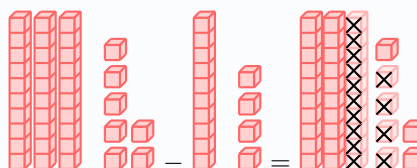
$$7 \text{ ones} - 4 \text{ ones} = 3 \text{ ones}$$

- **Step 2: Subtract the tens**

$$3 \text{ tens} - 1 \text{ ten} = 2 \text{ tens}$$

- **Result:** There are 2 tens and 3 ones. So,

$$37 - 14 = 23$$



Now let's try $32 - 14$. When we look at the ones place, we need to do:

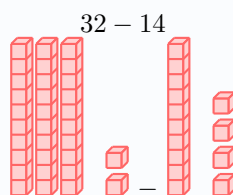
$$2 \text{ ones} - 4 \text{ ones}$$

We don't have enough ones to take 4 away! To solve this, we can **regroup**. We will trade 1 ten for 10 new ones. Now we

will have enough. Let's see how it's done!

Method Subtracting Ones Then Tens with Regrouping

To calculate:

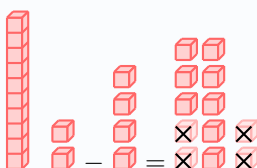


- **Step 1: Subtract the ones with regrouping**

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

We don't have enough ones, so we borrow 1 ten from the tens place, turning it into 10 ones. Now we have 12 ones.

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

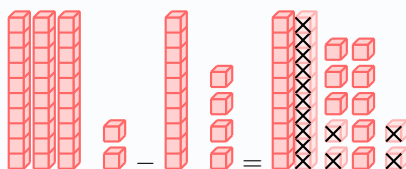


- **Step 2: Subtract the tens**

$$3 \text{ tens of } 32 - 1 \text{ ten of } 14 - 1 \text{ ten of borrowing} = 1 \text{ ten}$$

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

$$32 - 14 = 18$$



C SUBTRACTION IN COLUMNS

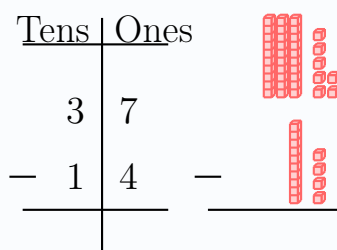
Method Subtraction in Columns

To calculate:

$$37 - 14$$

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

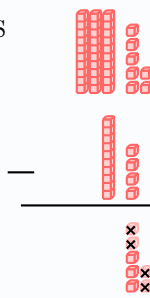
Write the numbers in a vertical column, making sure the digits line up by place value (ones under ones, tens under tens).



- **Step 2: Subtract the ones**

$$7 \text{ ones} - 4 \text{ ones} = 3 \text{ ones}$$

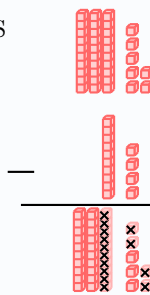
Tens	Ones
3	7
— 1	4
—	3



- **Step 3: Subtract the tens**

$$3 \text{ tens} - 1 \text{ ten} = 2 \text{ tens}$$

Tens	Ones
3	7
— 1	4
— 2	3



- **Result:** There are 2 tens and 3 ones. So,

$$37 - 14 = 23$$

Method Column Subtraction with Regrouping

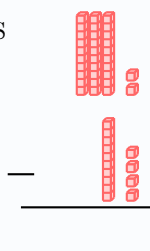
To calculate:

$$32 - 14$$

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

Write the numbers in a vertical column, making sure the digits line up by place value (ones under ones, tens under tens).

Tens	Ones
3	2
— 1	4
—	—

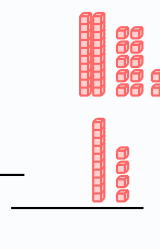


- **Step 2: Regroup 1 Ten**

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

We don't have enough ones, so we borrow 1 ten from the tens place, turning it into 10 ones. Now we have 12 ones.

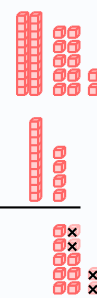
Tens	Ones
2	12
3	2
— 1	4
—	—



- **Step 3: Subtract the ones**

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

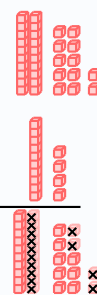
Tens	Ones
2	12
3	2
— 1	4
	8



- **Step 4: Subtract the tens**

3 tens (from 32) — 1 ten (from 14) — 1 ten (borrowed) = 1 ten

Tens	Ones
2	12
3	2
— 1	4
1	8



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

$$32 - 14 = 18$$