# **SUBTRACTION WITHIN 20**

# A DEFINITIONS

**Discover:** Have you ever given away some of your toys or candies to a friend? When you do that, you're subtracting! Let's see: if you have 13 cubes, and you give 5 cubes to your friend, how many cubes do you have left?

88		
88		
88		
88		
88	<b>-</b>	<b>(</b> ) =

Answer: Now you have 8 cubes left! In math, we write it like this:

13 - 5 = 8				
88				
88				
88			88	X
88			88	X
88	6 -	- 🗇 =		X

0

### 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:

13 - 5 = 8

• Cubes:

66				
88				
88			88	X
88			88	X
88	6	- 🗇 =		X

• Fingers:



• Words:

thirteen minus five equals eight

• Part whole model:



## **B NUMBER LINE METHOD**



# C MAKING 10 METHOD

#### Method Subtracting with the Making 10 Method

To subtract 13 - 5, we can break down the subtraction into two steps by first making 10.

- 1. Start with 13: We have 13 as our starting number.
  - 2. Make 10: Ask yourself, How many do we need to reach 10? Since we're subtracting, we need to remove 3 first to reach 10. Now, we're left with 13 3 = 10.
  - 3. Finish the Subtraction: We still need to subtract 2 more from 10, which gives us 10 2 = 8.



### **D** ADDITION AND SUBTRACTION LINK

**Discover:** Imagine you have 2 red apples, and your friend gives you 3 blue apples.

- 1. How many fruits do you have now?
- 2. If you eat the 3 blues apples, how many are left?
- 3. Can you see the connection between the two questions?

Answer:

(°±°)

1. Now you have 5 apples in total.



2 + 3 = 5

2. If you take away the 3 blues apples, you'll be left with 2 red apples.



3. See how addition and subtraction are linked? Adding 3 to 2 gives 5, and removing 3 from 5 brings us back to 2.

2+3=5 and 5-3=2







#### Answer:



• Because 18 + 1 = 19, 19 - 18 = 1

→ Method Counting On → For 13 − 9:			
1. Start with 9.			
2. Count forward 10, 11, 12,	13. We added 4 numbers to reach $13$	3.	
So, $13 - 9 = 4$ because $9 + 4 = 3$	13.		
	13		
	9	4	

# E PROBLEM-SOLVING METHODS

In math, we often need to find answers to problems that involve either adding or subtracting. Here's how we can solve these problems step-by-step.

Method Steps to Solve Word Problems

- 1. **Understand the Problem**: Read the problem carefully. Look for keywords like "altogether" for addition or "left" for subtraction.
- 2. Decide on the Operation: Determine whether you need to add or subtract to solve the problem.
- 3. Set Up the Equation: Write the equation that matches the problem. If you are finding the total, use addition. If you are finding what is left, use subtraction.
- 4. Solve and Check: Solve the equation. After you find the answer, check if it makes sense with the problem.

**Ex:** You have 5 candies, and your friend gives you 3 more. How many candies do you have now? *Answer:* 

• Start with the 5 candies you have, and add the 3 candies your friend gave you.

•

### total candies

3
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your candies

#### friend's candies

• 5+3=8

• So, you have 8 candies in total.