

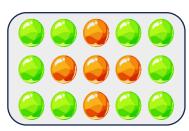
# Decomposing the numbers



## **Decomposing the Numbers**

- Decomposing a number is the process of breaking it down into smaller parts.
- In place value, it involves breaking the number down into its individual digits and representing each digit by its place value.

#### For example,



There are totally 15 balls are there.

In that 15 balls, there are

10 greens balls

5 orange balls.

$$15 = 10 + 5$$

So, 15 is breaking into smaller parts that are 10 and 5 15 is decomposed as 10 and 5

## Example:

Consider the number 14.

It has two digits 1 and 4.

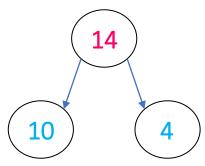
The digit 1 is in the tens place and the digit 4 is in the ones place.

That means 14 has 1 ten and 4 ones.

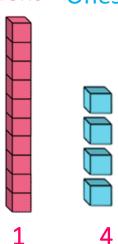
We can write 14 as

$$14 = 10 + 4$$

So 14 can be decomposed as 10 + 4



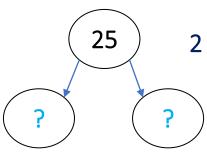
#### Tens Ones





# Decompose the numbers in the number bond

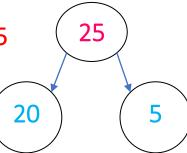
## Example 1:



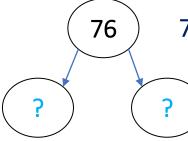
2 tens and 5 ones makes 25

20 and 5 makes 25

$$20 + 5 = 25$$



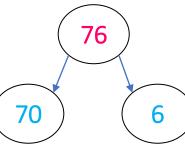
#### Example 2:



7 tens and 6 ones makes 76

70 and 6 makes **76** 

$$70 + 6 = 76$$



Decomposing a number using the addends method In this method, we separate or break down a number into different addends

# For example,

Consider the number 8.

To decompose the number 8 into its addends you have to think about how you can create this number using smaller numbers.

$$8 = 0 + 8$$

$$8 = 1 + 7$$

$$8 = 2 + 6$$

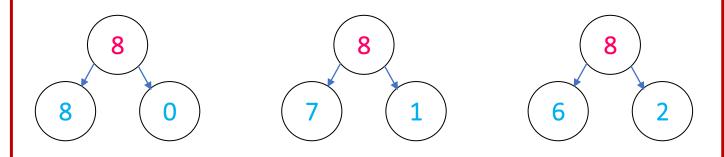
$$8 = 3 + 5$$

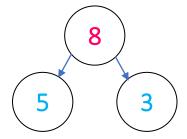
$$8 = 4 + 4$$

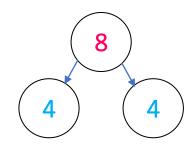


# **Decomposing the Numbers using number bonds**

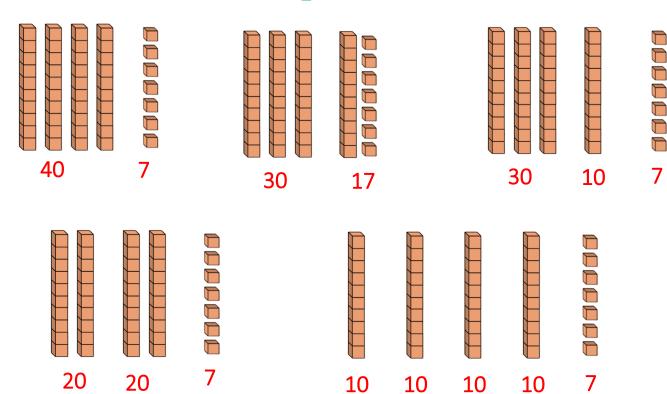
These are different ways to decompose the number 8.





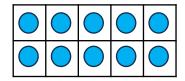


## Let us decompose the number 47

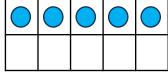




# Example 1: Decompose the number 15



10



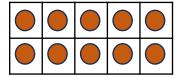
15 can be decomposed as

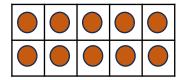
10 and 5.

10 and 5 gives 15.

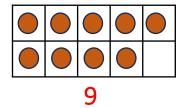
15 = 10 + 5

#### Example 2: Decompose the number 29





10



29 can be decomposed

as 20 and 9

20 and 9 gives 29

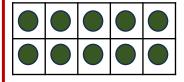
20 + 9 = 29

#### Example 3: Decompose the number 48

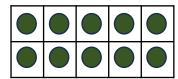
48 can be decomposed as 40 and 8

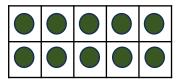
40 and 8 gives 48

40 + 8 = 48









10

10

10

10

