Read About Composing & Decomposing Numbers (1-10)

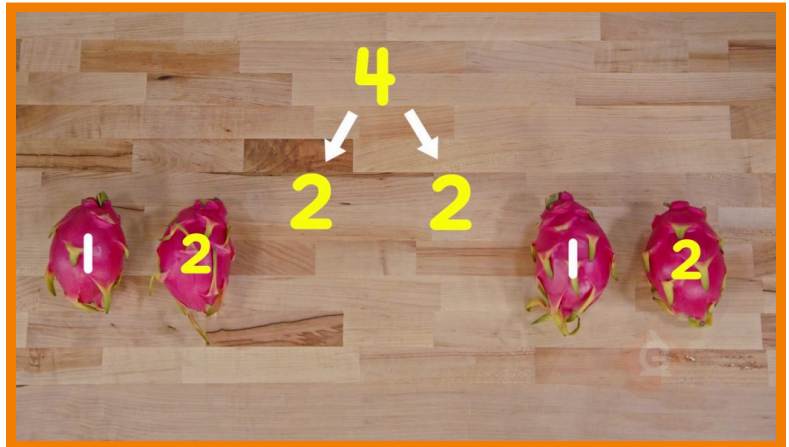## WHAT ARE COMPOSING & DECOMPOSING NUMBERS (1-10)?

You will learn that whole numbers can be put together to compose a greater number. Whole numbers can also be broken apart to decompose into two lesser numbers!

To better understand composing & decomposing numbers...
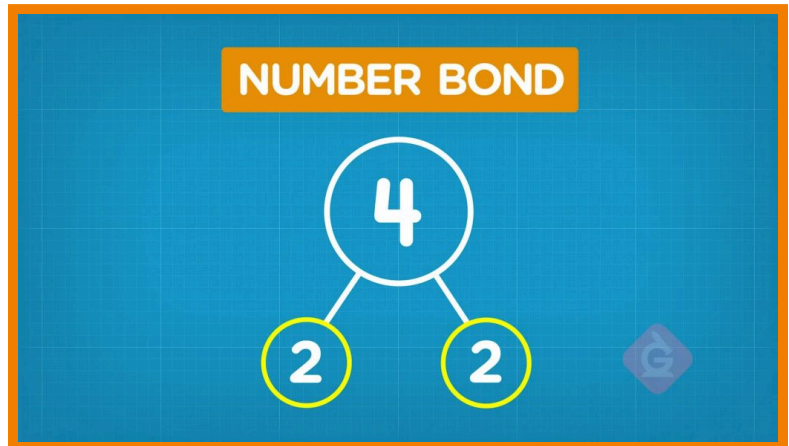
LET'S BREAK IT DOWN!

Decompose a number

Decomposing a number means taking a whole number and breaking it into two smaller parts. To decompose the number 5, you can break it into smaller parts of 4 and 1, or 3 and 2.
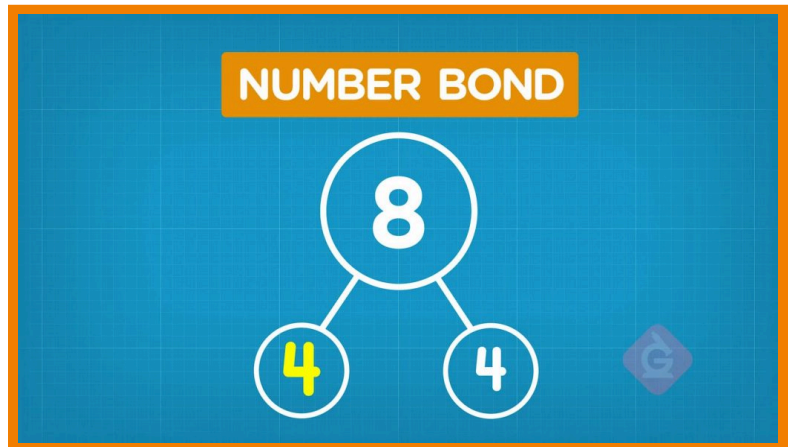
Use a number bond to show parts.

A number bond is a tool you can use to show parts of a whole. A number bond has one circle on top and two circles on the bottom. The top number shows the whole. The bottom numbers show the parts.

Decompose 8 using a number bond.

To show 8 in a number bond, put 8 in the top circle. Then the parts go in the lower circles. 2 and 6 make 8. 2 and 6 can go in the lower circles.

Compose a number.

Composing a number means taking two lesser numbers and combining them to make a greater whole number. A group of 4 and a group of 2 make 6.

Compose 9 using a number bond.

9 goes in the top circle. 6 and 3 make 9 so the numbers 6 and 3 can go in the lower circles. You can say 6 and 3 make 9 OR 3 and 6 make 9.

COMPOSING & DECOMPOSING NUMBERS (1-10) VOCABULARY

Decomposing numbers	Breaking a number into two smaller parts.
Composing numbers	Combining two parts of a whole.
Number Bond	A diagram that shows a whole and two parts.
Total	The result of counting.
Count	The find how many items in a group.
Numbers	Symbols used to represent how many.

COMPOSING & DECOMPOSING NUMBERS (1-10) DISCUSSION QUESTIONS

There are 8 dragon fruits. Gavin has 5. How many does Amiyah have?

5 and 3 make 8, so Amiyah has 3 dragon fruit.

What does a number bond show us?

The parts and the whole.

**[Draw a number bond showing 9 broken into 4 and an unknown amount.]
What part is missing from this number bond? How do you know?**

5. 4 and 5 make 9.

**[Draw a number bond showing an unknown number broken into 3 and 7.]
What whole is missing from this number bond? How do you know?**

3 and 7 make 10, so 10 is the missing number.

What is the same as 4 and 2 make 6?

2 and 4 make 6.