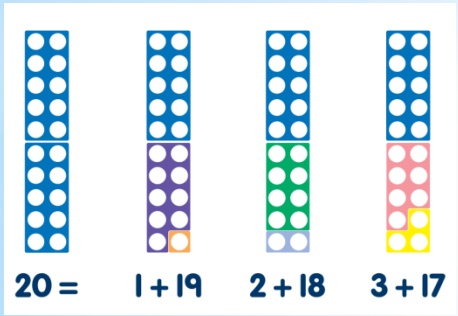
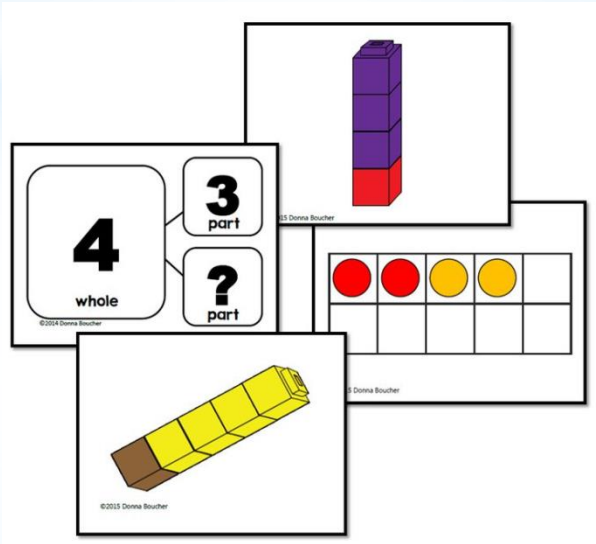
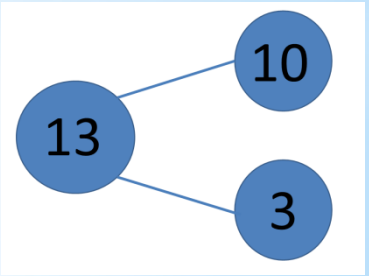
Teaching the Mastery Way

Number Bonds







What are ‘number bonds’?

Number bonds are a way of showing how numbers can be combined or split up.

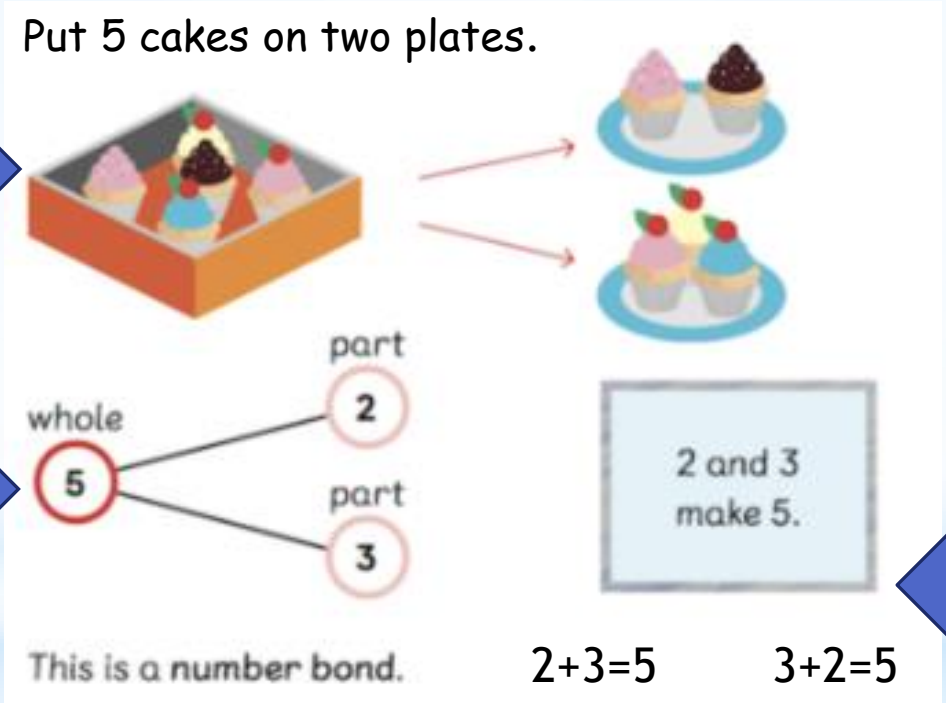
They are used to reflect the ‘part-part-whole’ relationship of numbers.

How do children learn about ‘number bonds’?

Concrete

Pictorial

Abstract



Taking ‘number bonds’ further

- Number bonds are used to develop strategies such as ‘making ten’.

- By mastering number bonds early on, pupils build the foundations they need for subsequent learning and are better equipped to develop mental strategies and mathematical fluency.

- Building a strong number sense, helps pupils to decide what action to take when trying to solve problems in their head.

Taking ‘number bonds’ further

Add 297 and 60.

297 + 60 = 300 + 57

3 57

297 + 60 = 357

Your Turn!

Can you use number bonds to solve the calculations?

546 + 48 =

632 + 259 =

Using the apparatus, how many different ways can you represent this number bond?

7 + 3 =

What could you use that you have at home?

Taking ‘number bonds’ further