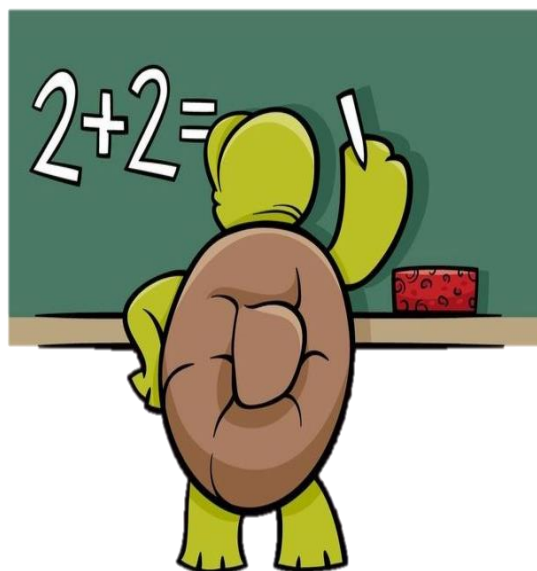


# ADDITION and SUBTRACTION (to 20)

## KNOWLEDGE ORGANISER

### Overview



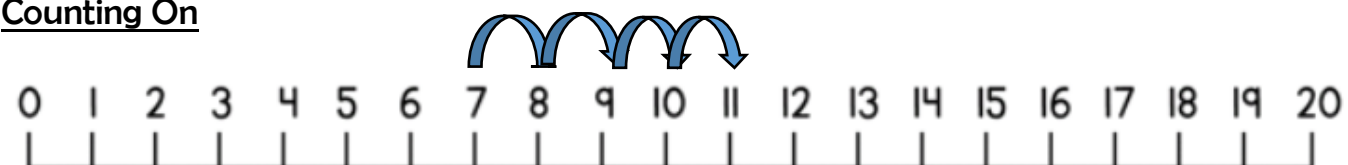
**In our unit on addition and subtraction** we learn:

- Add by Counting On
  - Find and Make Number Bonds
  - Add by Making 10
  - Subtraction (Not Crossing 10)    -Related Facts
  - Subtraction Crossing 10    -Compare Number Sentences
- Addition and Subtraction is useful learning because it is used in many areas of everyday life – e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

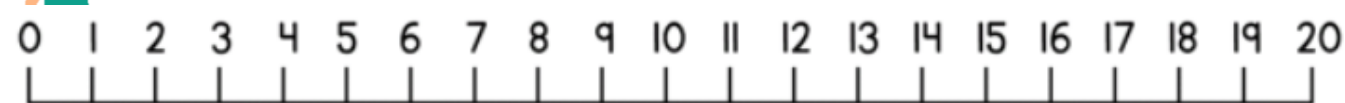
### Counting On/ Counting Back

Number lines can be used to help us count on/ count back when adding or subtracting.

#### Counting On



By counting on, I can see that  $7 + 4 = 11$

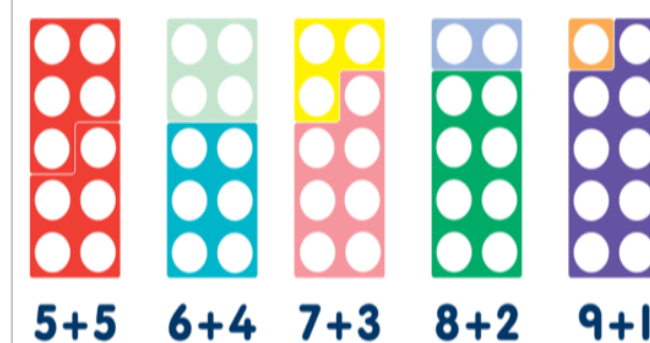
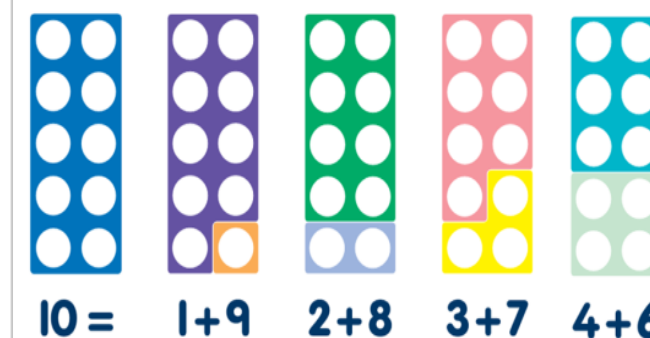
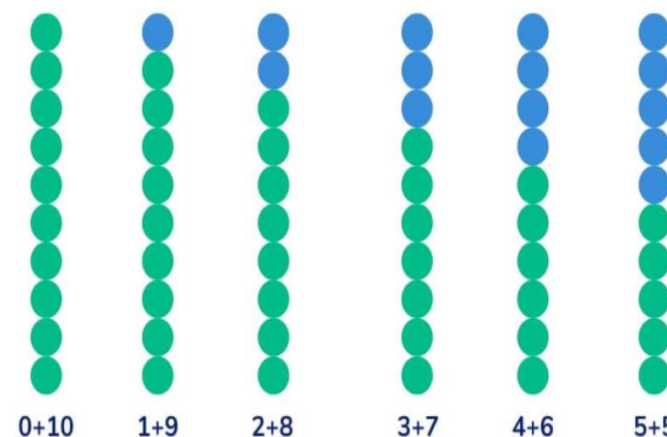


By counting back, I see that  $15 - 3 = 12$



### Number Bonds

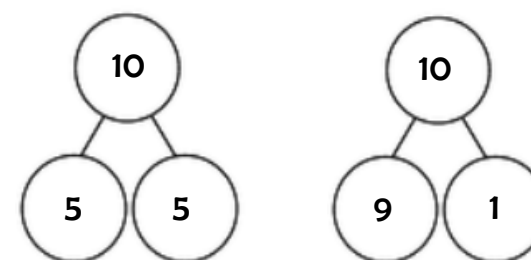
Number bonds are pairs of numbers that can be added to make another number.  
 -We should learn number bonds up to 10.  
 -The images here show the number bonds to make 10.



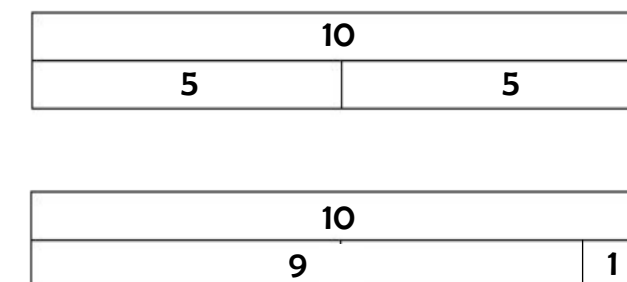
### Part-Whole Models/ Bar Models

Part-Whole Models and Bar Models are two further ways to show number bonds.

#### Part-Whole Models



#### Bar Models



### Key Vocabulary

Number      Count      Add      Subtract      Take Away      Difference      Plus      Number Line      Number Bond