15+5=20

14+6=20

13 + 7 = 20

12 + 8 = 20

11 + 9 = 20

10 + 10 = 20

# ● ADDITION and SUBTRACTION (to 20) KNOWLEDGE ORGANISER

6 + 14 = 207 + 13 = 20

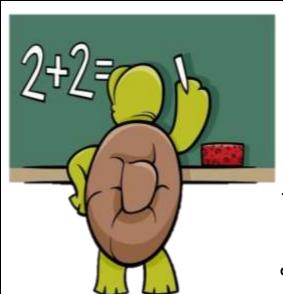
8+12=20

9 + 11 = 20

10 + 10 = 20



#### **Overview**



### 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.

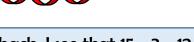
## **Counting On/ Counting Back**

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.

#### **Compare Number Sentences**

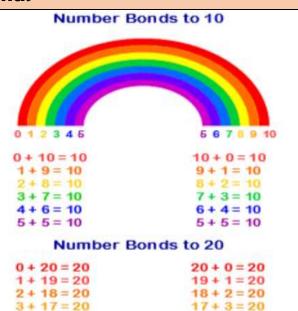
> Greater than < Less than = Equal to

#### Examples

14+3>4+3

16 = 20 - 4

12 - 2 < 13 - 1



# **Partitioning/ Crossing 10**

We can cross 10 by partitioning numbers.

#### Addition

for 8 + 4...





...we can partition the 4 into 2 and 2.

8 + 2 = 10

10 + 2 = 12

#### Subtraction

for 11 - 5...



...we can partition the 5 into 1 and 4.

11 - 1 = 10

10 - 4 = 6

# **Key Vocabulary**

Number

Count

Add

Subtract

Take Away

Difference

Plus

**Number Line** 

**Number Bond**