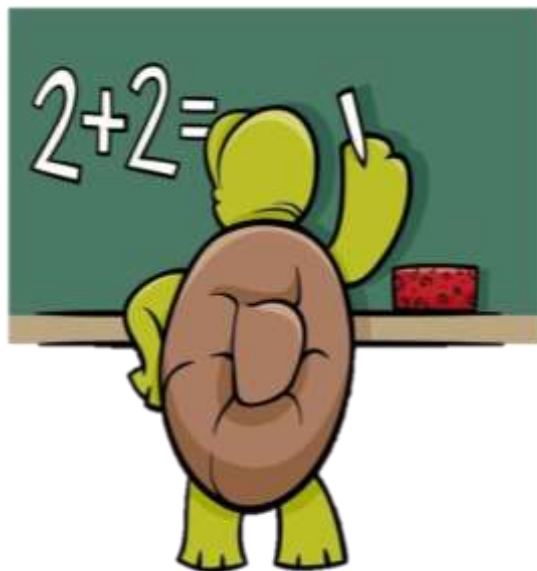




# ADDITION and SUBTRACTION (to 20)



### 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.

### 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

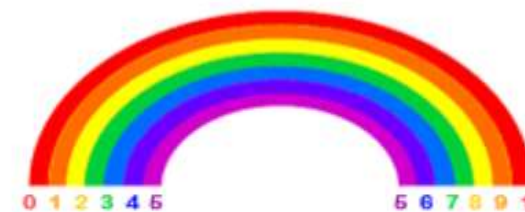
#### Examples

$$14 + 3 > 4 + 3$$

$$16 = 20 - 4$$

$$12 - 2 < 13 - 1$$

#### Number Bonds to 10



$$0 + 10 = 10$$

$$1 + 9 = 10$$

$$2 + 8 = 10$$

$$3 + 7 = 10$$

$$4 + 6 = 10$$

$$5 + 5 = 10$$

$$10 + 0 = 10$$

$$9 + 1 = 10$$

$$8 + 2 = 10$$

$$7 + 3 = 10$$

$$6 + 4 = 10$$

$$5 + 5 = 10$$

#### Number Bonds to 20

$$0 + 20 = 20$$

$$1 + 19 = 20$$

$$2 + 18 = 20$$

$$3 + 17 = 20$$

$$4 + 16 = 20$$

$$5 + 15 = 20$$

$$6 + 14 = 20$$

$$7 + 13 = 20$$

$$8 + 12 = 20$$

$$9 + 11 = 20$$

$$10 + 10 = 20$$

$$20 + 0 = 20$$

$$19 + 1 = 20$$

$$18 + 2 = 20$$

$$17 + 3 = 20$$

$$16 + 4 = 20$$

$$15 + 5 = 20$$

$$14 + 6 = 20$$

$$13 + 7 = 20$$

$$12 + 8 = 20$$

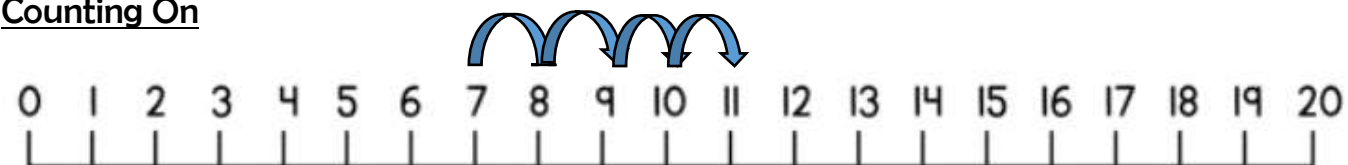
$$11 + 9 = 20$$

$$10 + 10 = 20$$

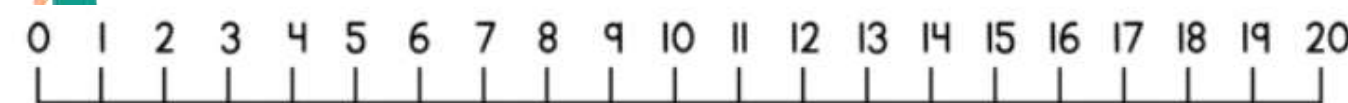
### Counting On/ Counting Back

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  $15 - 3 = 12$



### Partitioning/ Crossing 10

We can cross 10 by partitioning numbers.

#### Addition

for  $8 + 4...$



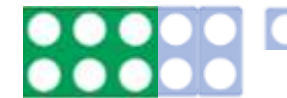
...we can partition the 4 into 2 and 2.

$$8 + 2 = 10$$

$$10 + 2 = 12$$

#### 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