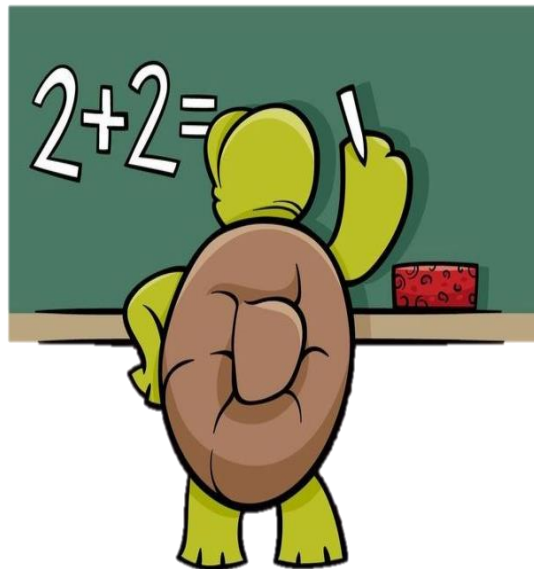# ADDITION and SUBTRACTION

KNOWLEDGE ORGANISER

Overview

Addition and Subtraction we learn:

-Add and subtract multiples of 100.

-Add and subtract three 1-digit numbers.

-Add and subtract three 2-digit numbers.

-Add and subtract 100s.   -Spot the pattern.

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.

## Addition and Subtraction Bonds to 20

Number bonds are pairs of numbers that can be added and subtracted to make another number.

-We should learn number bonds up to 20.

-The images here show some number bonds within 20.

17	
4	13
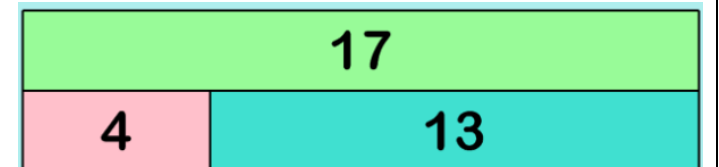
$4 + 13 = 17$ $13 + 4 = 17$

$17 - 4 = 13$ $17 - 13 = 4$

Number bonds to 20

1 + 19		19 + 1
2 + 18		18 + 2
3 + 17		17 + 3
4 + 16		16 + 4
5 + 15		15 + 5
6 + 14		14 + 6
7 + 13		13 + 7
8 + 12		12 + 8
9 + 11		11 + 9
10 + 10		10 + 10

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
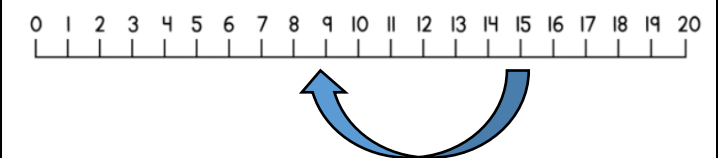
$15 - 6 = 9$ $15 - 9 = 6$

$6 + 9 = 15$ $9 + 6 = 15$

Add and Subtract 1s and 10s

We can count on/ count back when adding or subtracting, but should increasingly know number bonds from memory.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 $7 + 4 = 11$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 $13 - 4 = 9$
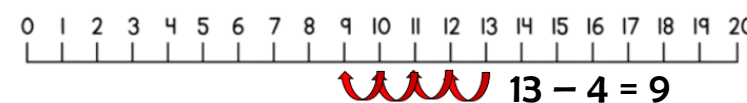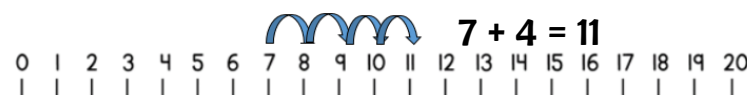
Counting in 10s

10	20	30	40	50	60	70	80	90	100
110	120	130	140	150	160	170	180	190	200
210	220	230	240	250	260	270	280	290	300
310	320	330	340	350	360	370	380	390	400
410	420	430	440	450	460	470	480	490	500
510	520	530	540	550	560	570	580	590	600
610	620	630	640	650	660	670	680	690	700
710	720	730	740	750	760	770	780	790	800
810	820	830	840	850	860	870	880	890	900
910	920	930	940	950	960	970	980	990	1000

10 More, 10 Less

2	12	22
10 Less	Number	10 More
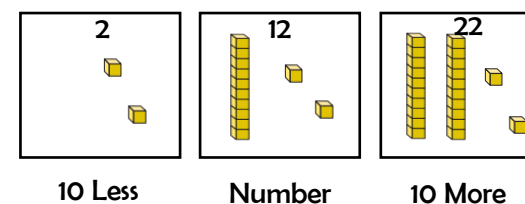
When we add or subtract 10, the ones digit stays the same.

Crossing Hundreds

Take care: once we reach 10 tens, we have 1 hundred.

84, 94, 104, 114,

Column Addition/ Subtraction

Column method helps us to complete more complex addition/ subtraction calculations.

Column Addition

```
  25
  05
-----
  30
  1
```

Column Subtraction

```
  ⁶7̶ ¹2
    5  6
  -----
    1  6
```

Key Vocabulary

Number   Count   Add   Subtract   Take Away   Difference   Plus   Column Method   Number Line   Number Bond   Inverse