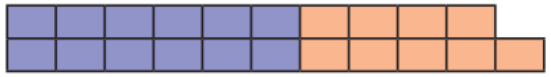
Year Two —Addition and Subtraction

Key Vocabulary

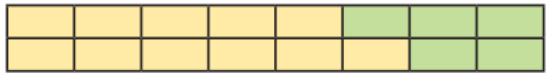
Addition	Addition means we add two groups together. We put two lots of objects together.
Equals	Equals means we find out how many we have altogether
Counting on	Start at a number and then jump the second number. The number you land on is the answer.
Double	To multiply by two or to add a value to itself - i.e. double 2 is 4
Number bond	A pair of numbers with a given total - i.e. 5+5=10
Part	A number that needs to be added with another number to make the whole
Whole	What the two parts add up to
Fact families	A number of different ways you can use 3 numbers from a part-part whole diagram as a sum.
Subtraction	The inverse operation to addition - to take an amount away from a whole.
Counting back	Start at a number and then jump back the second number. The number you land on is the answer.
Halving	To divide or share a number of objects between 2.
Difference	The difference between two numbers or sets of objects. It is found by comparing the quantity of one set of objects with another. i.e., The difference between 10 and 4 is 6.

Mental Methods

Compare Number Sentences



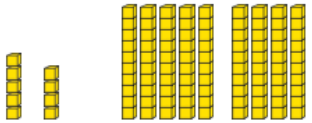
6 + 4 < 6 + 5



5 + 3 = 6 + 2

Related facts

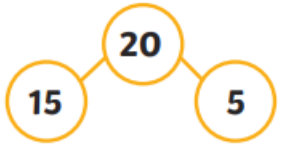
5 + 4 = 9 so 50 + 40 = 90



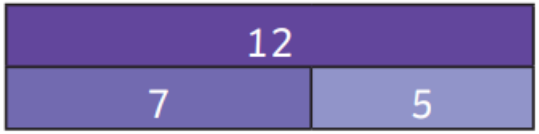
Add 3 1-digit numbers

9 + 5 + 3 = 17

Addition and Subtraction Bonds to 20

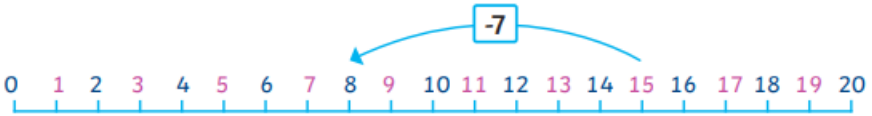


15 + 5 = 20
20 – 5 = 15
20 – 15 = 5



7 + 5 = 12
12 – 5 = 7
12 – 7 = 5

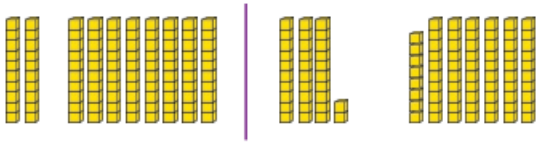
4 + 3 = 7



15 – 7 = 8

Addition and Subtraction Bonds to 100

2 + 8 = 10
so 20 + 80 = 100

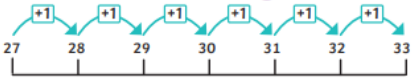


32 + 68 = 100
3 tens and 2 ones + 6 tens and 8 ones
= 9 tens and 10 ones = 10 tens =one hundred

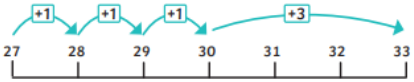
Year Two — Addition and Subtraction

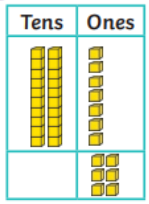
Different Methods

Add 2-digit and 1-digit

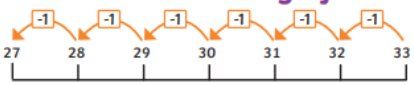


27 + 6 = 33

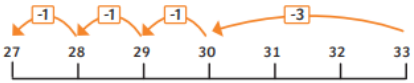


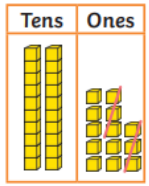


Subtract 1-digit from 2-digit



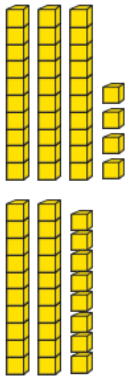
33 - 6 = 27





Add 2-digit numbers

34 + 28 = 62



3 tens and 4 ones

add

2 tens and 8 ones

equals

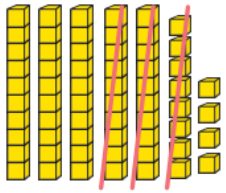
5 tens and 12 ones

becomes

6 tens and 2 ones

Subtract 2-digit numbers

62 – 28 = 34

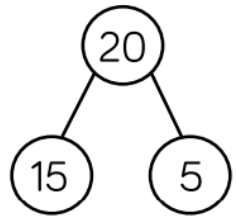


6 tens and 2 ones becomes

5 tens and 12 ones subtract

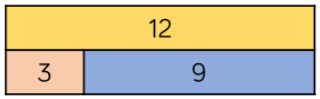
2 tens and 8 ones equals

3 tens and 4 ones



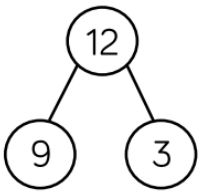
Understanding the relationship between addition and subtraction facts (inc fact families)

Which of the representations are equivalent to the bar model?

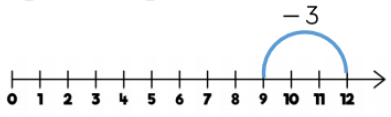


12 = 9 + 3

There are 9 cars in a car park, 3 cars leave.



9 – 3 = 12



Understanding the relationship between addition and subtraction facts (inc fact families)

More/Less—add and subtract 1s and 10s

Add and subtract 1s

24 + 1 = 25

24 + 2 = 26

24 + 3 = 27

24	25	26	27	28	29	30	31

37 – 1 = 36

37 – 2 = 35

37 – 3 = 34

There are 7 flowers in a vase. One more is added. Now there are 8 flowers.

10 More or Less

30	40	50	60	70	80
47	57	67	77	87	97

The ones digit stays the same.

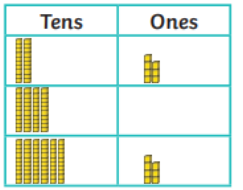
10 less	Number	10 more
1	11	21
34	44	54

Take care when crossing hundreds:

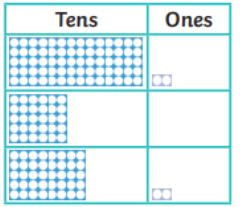
86	96	106	116

Add and Subtract 10s

10	30	50	70	90
3	33	63	93	



27
+ 40
67



72
- 30
42

Crossing hundreds:

74	94	114	134