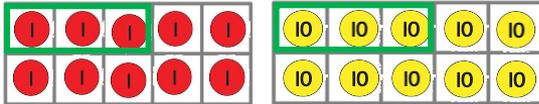


Key concepts and questions

What are addition facts?

- Addition facts are calculations. One addition fact can be used to help solve many other addition facts.
- If you know $3+7=10$, you also know $30+70=100$



Numicon can be used to help with addition facts. This shows $3+7=10$ but each hole could represent 10, so this also shows $30+70=100$

How does partitioning help in addition?

- You can add the ones and tens separately then add the totals together.

$$31 + 22 = 53$$

	Tens	Ones	
+			31
			22
=	5 tens	3 ones	53

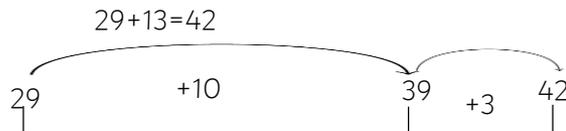
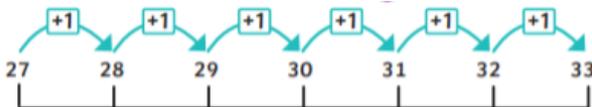
Key Vocabulary

count on	Counting forwards from a given number.	
add	To find the total of 2 or more numbers.	
altogether	The total of 2 or more numbers, e.g. the total of $2 + 2$ is 4	
total	How many there are altogether	
addition calculation	An addition number sentence using the + sign e.g. $12 + 5 = 17$	
ones	The number of 1s in a number	
tens	The number of 10s in a number	
partition	To split a number into smaller parts.	
number bond	A pair of numbers.	
commutative	Addition can be done in any order. $12+6=18$ and $6+12=18$	

Representations

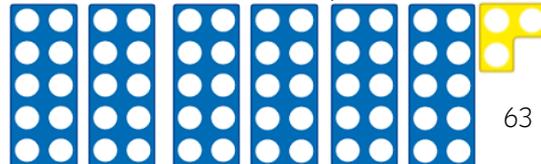
Numberlines – counting on

$$27 + 6 = 33$$

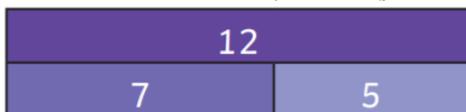


Numicon

Can be used to represent numbers.



Bar models – we add parts to find the whole



$$7 + 5 = 12$$

Making connections

Addition can be done in any order

If we know

$$15 + 5 = 20$$

We also know

$$5 + 15 = 20$$



Addition and subtraction are linked

If $15 + 5 = 20$

$$\text{Then } 20 - 5 = 15$$

$$\text{And } 20 - 15 = 5$$