

Key concepts and questions

What is addition?

- Addition is the total of two or more numbers.
- When we add the answer gets bigger (unless we add 0)
- Addition can be done in any order
- The answer to an addition calculation is the total or the whole.

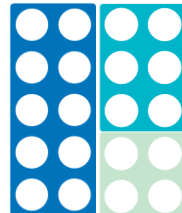
What are addition facts?

- Addition facts are addition calculations
- Addition facts to 10 can help with addition facts to 20

-If you know $4 + 6 = 10$,
you also know $14 + 6 = 20$
-10 can be added to both sides of the
calculation to turn an addition fact for
10 into an addition fact for 20.



$$4 + 6$$



$$14 + 6$$

Key Vocabulary

count on	Counting forward from a given number				
add	To put two or more numbers or objects together				
ones	The number of 1s in a number				
tens	The number of 10s in a number				
<table border="1"> <tr> <th>10s</th><th>1s</th></tr> <tr> <td>1</td><td>5</td></tr> </table>		10s	1s	1	5
10s	1s				
1	5				
altogether	The total of two or more numbers				
total	How many there are altogether				
addition calculation	Using numbers and symbols to write a number sentence $16 + 2 = 18$				
partition	To break a number into smaller parts				
number bonds	A pair of numbers that equal a given number.				

Representations

Ten frames



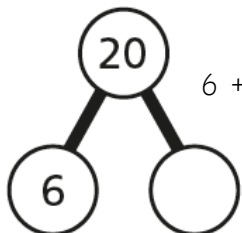
$$14 + 6 = 20$$

Bead string



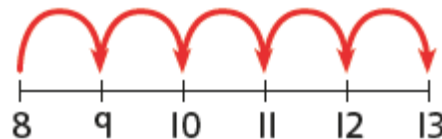
$$14 + 6 = 20$$

Part whole model



$$6 + ? = 20$$

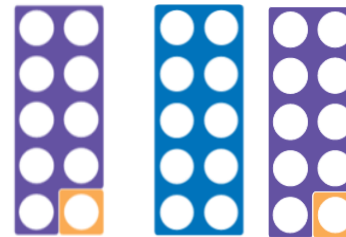
Counting on, on a Number line



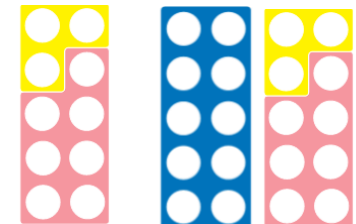
$$8 + 5 = 13$$

Making connections

Number bonds to 10 help with learning number bonds to 20.



$$9 + 1 = 10 \text{ so } 19 + 1 = 20$$



$$3 + 7 = 10 \text{ so } 13 + 7 = 20$$