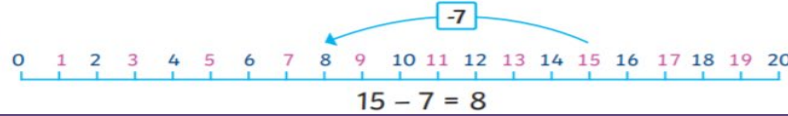
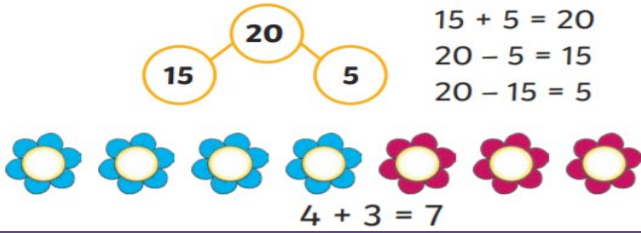


Addition and Subtraction Bonds to 20

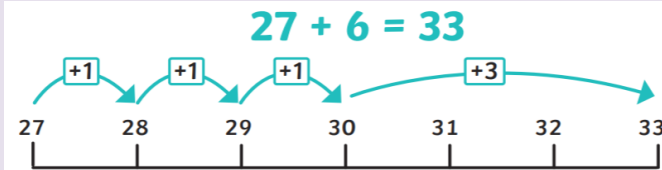
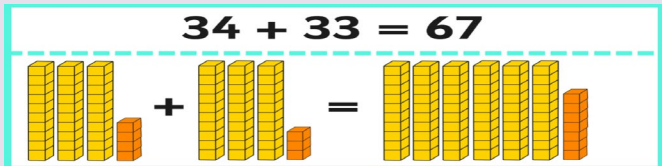


Vocabulary

add	To bring two or more numbers (or things) together to make a new total.
total	The result of adding. e.g. 1 + 4 gives a total of 5
plus	Another word for add
altogether	Including everything, in total.
difference	The result of subtracting one number from another. E.g. the difference between 8 and 5 is 3.
subtract	To take one number away from another. Synonyms: minus, take-away, decrease, deduct
less	A smaller amount of; not as much.
place value	The value of where a digit is in the number.
mentally	Doing the calculation in your head.
estimate	To find a value that is close enough to the right answer.
partition	Split into parts.
number facts	Addition, subtraction, multiplication and division calculations.

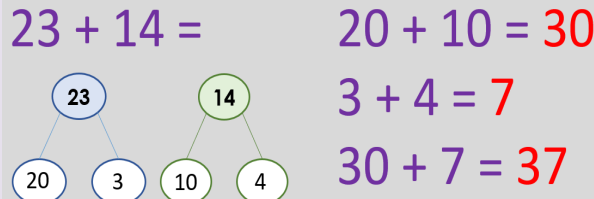
Methods – Addition

Pictorial



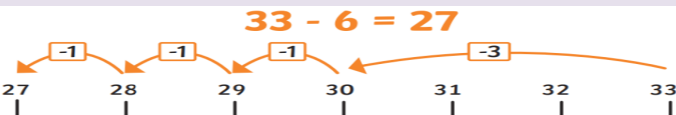
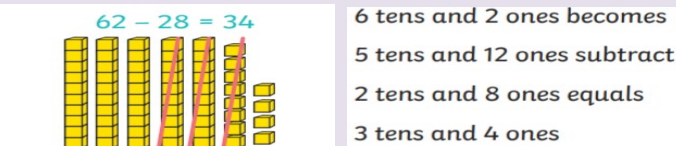
Abstract

Partitioning



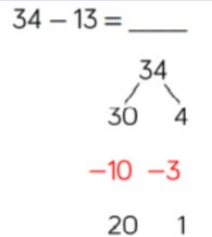
Methods - Subtraction

Pictorial

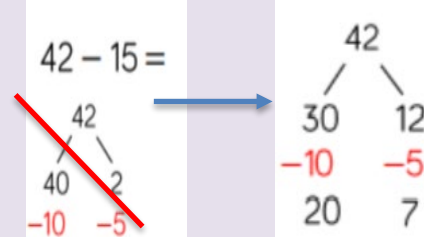


Abstract

No exchange

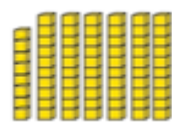
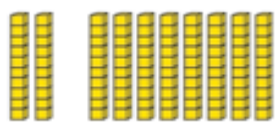


Exchanging



Addition and Subtraction Number Bonds to 20

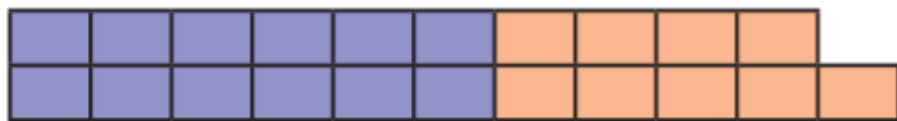
$2 + 8 = 10$
so $20 + 80 = 100$



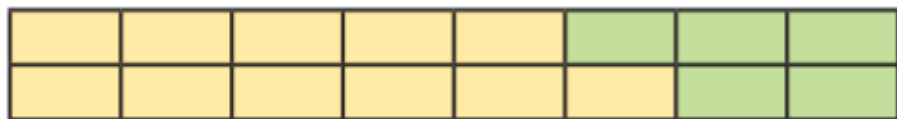
$32 + 68 = 100$
3 tens and 2 ones + 6 tens and 8 ones
= 9 tens and 10 ones = 10 tens = one hundred

Compare Number Sentences

Related Facts

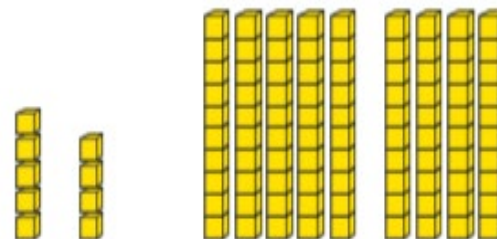


$6 + 4 < 6 + 5$



$5 + 3 = 6 + 2$

$5 + 4 = 9$ so $50 + 40 = 90$



Checking Calculations









$19 - 8 = 11$ can be checked using $8 + 11 = 19$

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