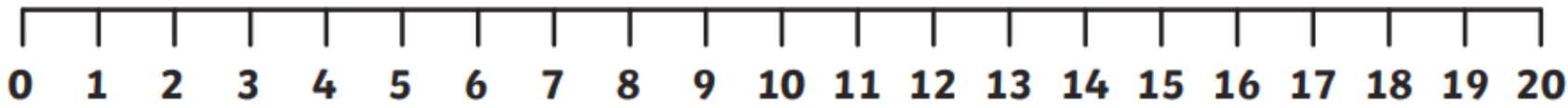


Templars Primary School Knowledge Organiser Year 1 Addition and Subtraction (within 20)

Key Vocabulary	
partition	
part-whole	
add	
equals	
total	
count on / back	
number bonds	
subtract	
takeaway	
fact family	
find the difference	
commutativity	



Add by counting on / Add by making 10

$13 + 5 = 18$

$5 + 3 = 8$

First: Then: Now:

$9 + 6 = 15$

I can partition 6 into 1 and 5.
 $9 + 1 = 10$
 $10 + 5 = 15$

Counting back

$16 - 5 = 11$

First: Then: Now:

How many more is 14 than 8?

$13 - 6 = 7$

I can partition 6 into 3 and 3.
 $13 - 3 = 10$ $10 - 3 = 7$

$12 - 5 = 7$

Find and make number bonds

Number bonds to 20

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



There are 6 red counters.
There are 4 blue counters.
Altogether there are 10
counters.

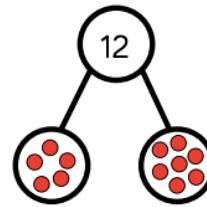
$$6 + 4 = 10 \quad 4 + 6 = 10$$



There are 16 red counters.
There are 4 blue counters.
Altogether there are 20
counters.

$$16 + 4 = 20 \quad 4 + 16 = 20$$

We can partition
any number

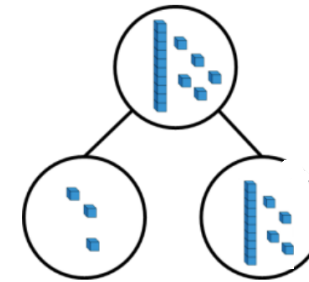


- $12 = 12 + 0$
- $12 = 11 + 1$
- $12 = 10 + 2$
- $12 = 9 + 3$
- $12 = 8 + 4$
- $12 = 7 + 5$
- $12 = 6 + 6$
- $12 = 5 + 7$
- $12 = 4 + 8$
- $12 = 3 + 9$
- $12 = 2 + 10$
- $12 = 1 + 11$
- $12 = 0 + 12$

Related facts



- $11 + 6 = 17$
- $6 + 11 = 17$
- $17 - 6 = 11$
- $17 - 11 = 6$



- $12 + 3 = 15$
- $3 + 12 = 15$
- $15 - 3 = 12$
- $15 - 12 = 3$

Remember: When writing subtraction facts, the number sentence should start with the largest number.

Compare number sentences



$$3 + 8 = 8 + 3$$

The digits in each question are the same. I know that it doesn't matter which order I add the numbers in, I will get the same answer. They are equal.

$$12 + 4 > 12 - 4$$

I know that if I add two numbers, the answer will get bigger. If I subtract the answer will get smaller. The addition question is greater.



$$16 + 7 < 17 + 8$$

I know that both numbers are greater in $17 + 8$ so that must give a greater total.

