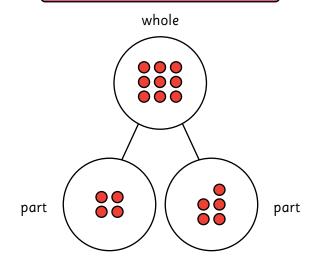
Part-whole model



$$4 + 5 = 9$$

part + part = whole

Number bonds within 10

Number bonds are pairs of numbers that can be added together to make another number. We can use a tens frame and counters to find each number bond starting with 0, then 1, then 2 etc.

These additions make the number bonds to 5.

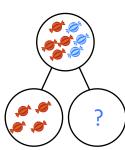
$$0 + 5 = 5$$
 $3 + 2 = 5$

$$1 + 4 = 5$$
 $4 + 1 = 5$

$$2 + 3 = 5$$
 $5 + 0 = 5$

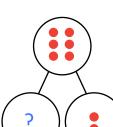
Find a part

When finding a part, we can use adding on or use subtraction to help us.



$$\frac{4}{7} + \frac{3}{4} = \frac{7}{4}$$

There are 7 sweets in total. 4 of the sweets are red so there must be 3 blue sweets.



There are 6 counters in total. 2 counters are red so there must be 4 blue counters

Number bonds to 10





$$2 + 8 = 10$$



$$3 + 7 = 10$$



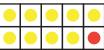














Addition

Add together

There are 6 blue counters and 3 yellow counters.



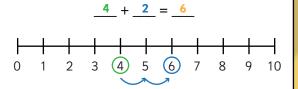
<u>6</u> plus <u>3</u> is equal to <u>9</u>.

There are 9 counters altogether.

Add more

First, I had 4 cupcakes. Then, I baked 2 more cupcakes. Now, there are 6 cupcakes.



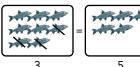


Subtraction

Take away

First, I had 8 fish. Then, 3 fish swam away. Now, I have 5 fish.



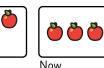




Number line

First, I had 5 apples. Then, I ate 2 apples. Now, I have 3 apples.







I make 2_ jumps. I land on 3.

Fact families

Using a part-whole model to help us, there are eight facts that we can write.

part + part = whole

part + part = whole

whole - part = part

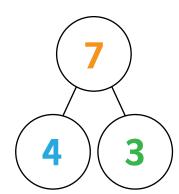
whole - part = part

whole = part + part

whole = part + part

part = whole - part

part = whole - part



$$3 + 4 = 7$$
 $7 = 4 + 3$

$$4 + 3 = 7$$
 $7 = 3 + 4$

$$7 = 3 + 4$$

$$7 - 4 = 3$$

$$3 = 7 - 4$$

$$7 - 3 = 4$$

$$4 = 7 - 3$$