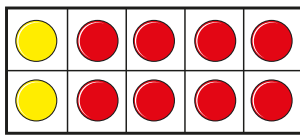


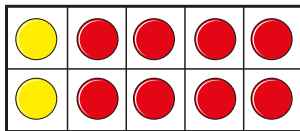
Find and make number bonds

I Complete the additions to match the ten frames.

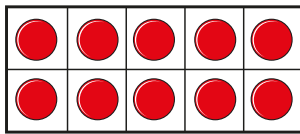
a)



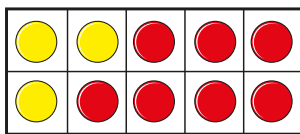
$$\boxed{2} + \boxed{8} = \boxed{10}$$



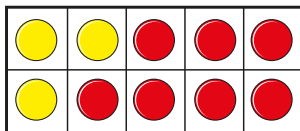
$$\boxed{2} + \boxed{18} = \boxed{20}$$



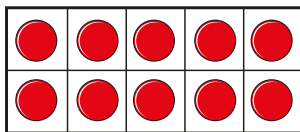
b)



$$\boxed{3} + \boxed{7} = \boxed{10}$$



$$\boxed{3} + \boxed{17} = \boxed{20}$$



c) What do you notice?





2 Complete the number bonds.

a) $4 + 6 = \boxed{10}$

$4 + 16 = \boxed{20}$

b) $5 + 5 = \boxed{10}$

$5 + 15 = \boxed{20}$

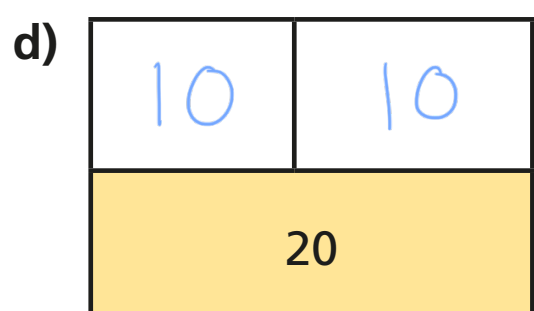
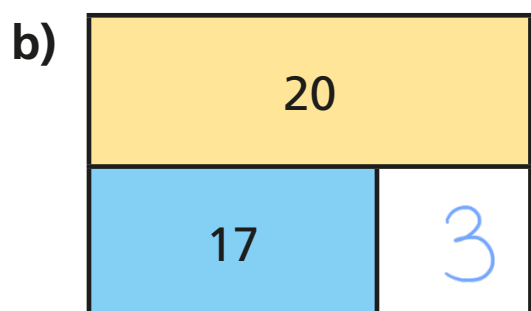
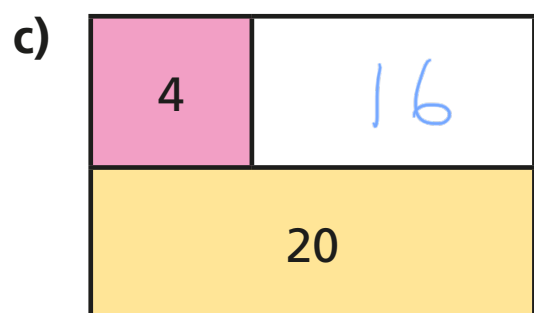
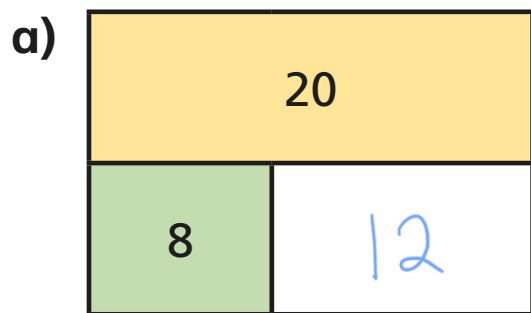
c) $10 = \boxed{9} + 1$

$20 = \boxed{19} + 1$

d) $10 = 3 + \boxed{7}$

$20 = \boxed{7} + 13$

3 Complete the bar models.





4

Colour all the number bonds to 20

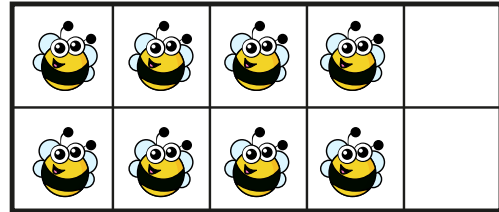
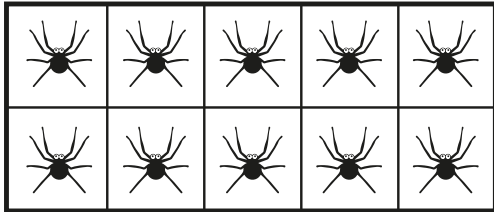
$14 + 3$	$17 + 3$	$2 + 18$	$0 + 20$	$3 + 16$	$9 + 11$	$17 + 3$	$18 + 2$	$2 + 0$
$18 + 1$	$3 + 7$	$12 + 7$	$5 + 15$	$4 + 8$	$1 + 19$	$13 + 5$	$20 + 0$	$1 + 15$
$11 + 8$	$11 + 9$	$19 + 1$	$3 + 17$	$10 + 0$	$13 + 7$	$16 + 2$	$8 + 12$	$5 + 5$
$5 + 6$	$4 + 16$	$19 + 0$	$10 + 1$	$2 + 0$	$14 + 6$	$17 + 1$	$11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

Make your own puzzle like this.

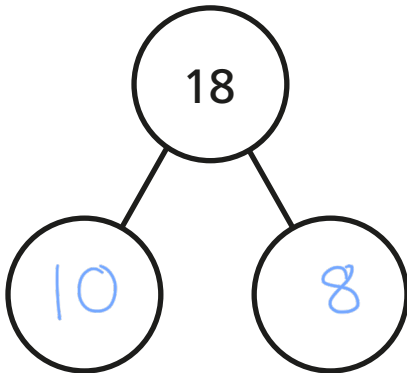


Related facts

I Look at the picture.



Complete the part-whole model and fact family.



$$\boxed{10} + \boxed{8} = 18$$

$$\boxed{8} + \boxed{10} = 18$$

$$18 - \boxed{10} = \boxed{8}$$

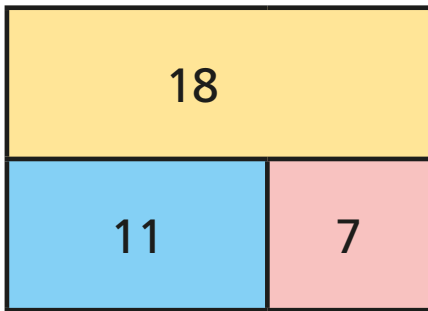
$$18 - \boxed{8} = \boxed{10}$$

Can you write each number sentence a different way?



2 Complete the fact family for each bar model.

a)



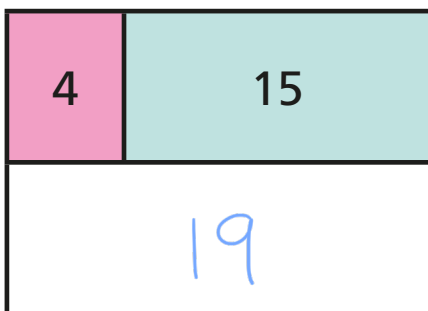
$$11 + 7 = 18$$

$$7 + 11 = 18$$

$$18 - 7 = 11$$

$$18 - 11 = 7$$

b)



$$19 = 4 + 15$$

$$19 = 15 + 4$$

$$15 = 19 - 4$$

$$4 = 19 - 15$$

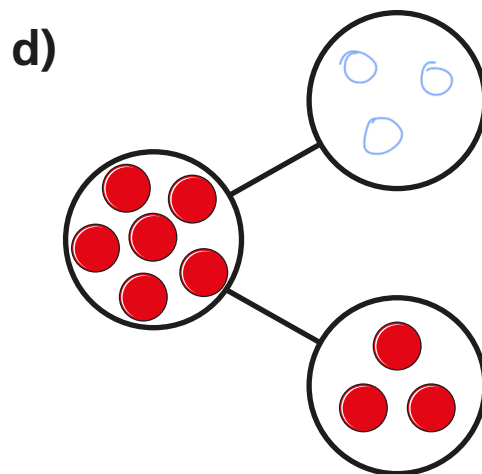
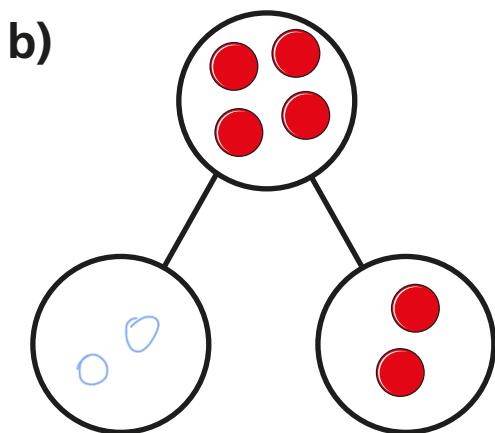
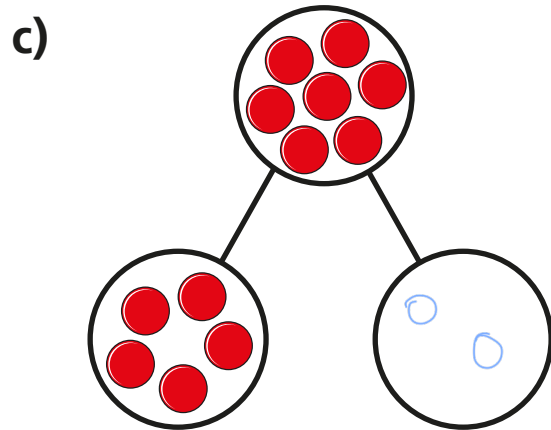
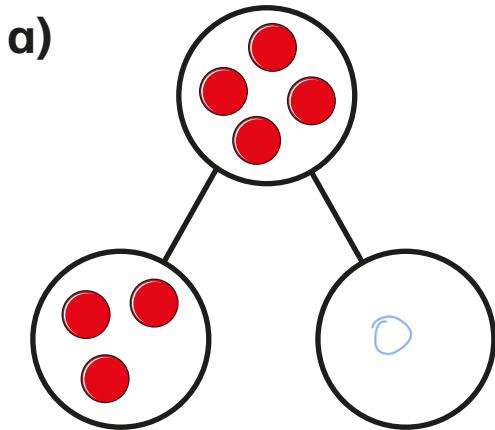
c) Draw your own bar models.

Ask a partner to write the fact family to match.



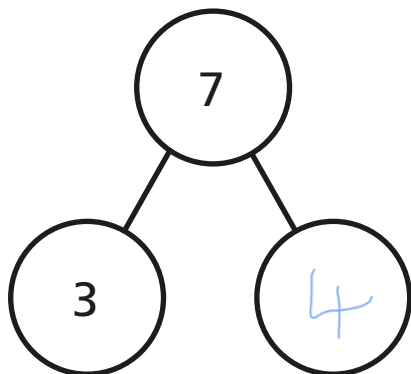
Find a part

I Draw counters to complete the part-whole models.



- 2** Complete the part-whole models.
Complete the sentences.

a)

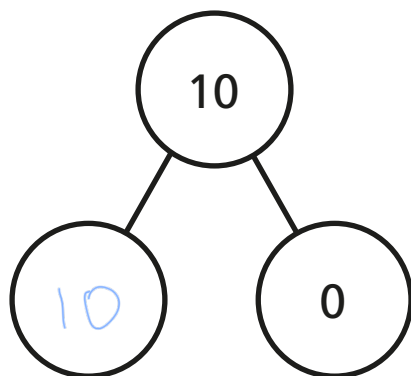


The whole is

is a part.

is a part.

b)



The whole is

is a part.

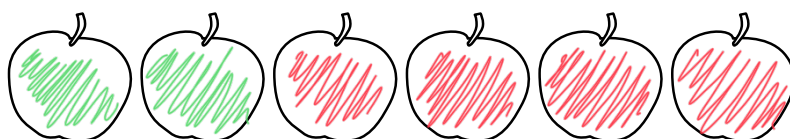
is a part.

- 3** There are 6 apples in total.

2 apples are green.

The rest are red.

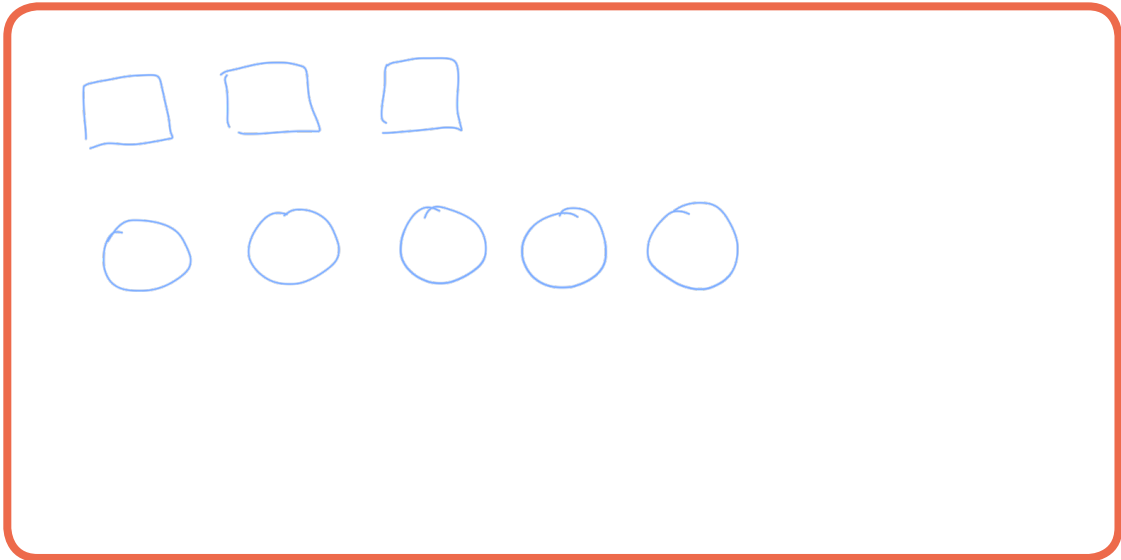
Colour the apples.



Complete the number sentence. $2 +$ $= 6$



- 4 There are 8 shapes in total.
3 of the shapes are squares.
The rest are circles.
Draw a picture to show this.



How many circles are there?

5

Complete the number sentence.

$$\boxed{3} + \boxed{5} = \boxed{8}$$

- 5 Complete the number sentences.

$$4 + \boxed{1} = 5$$

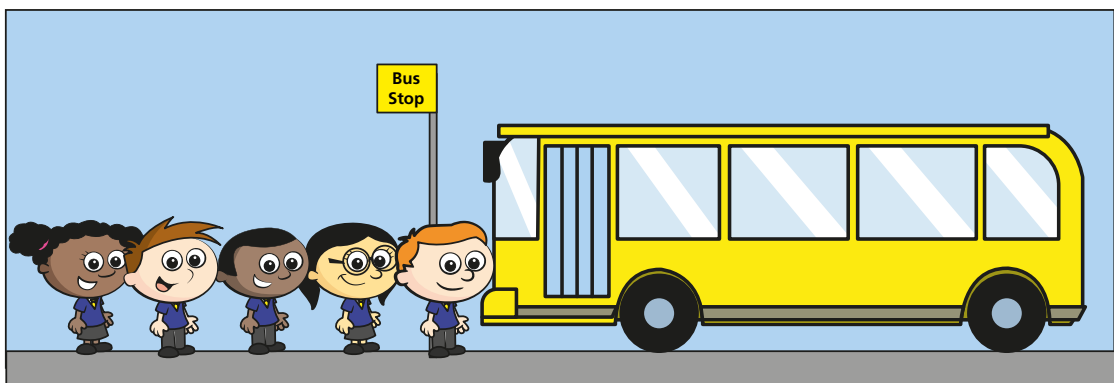
$$4 + \boxed{0} = 4$$

$$\boxed{3} + 1 = 4$$

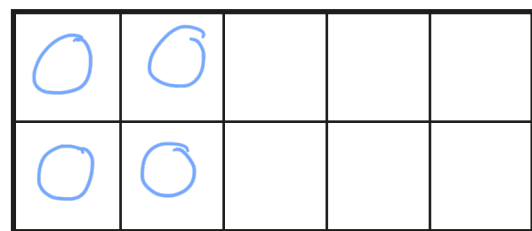
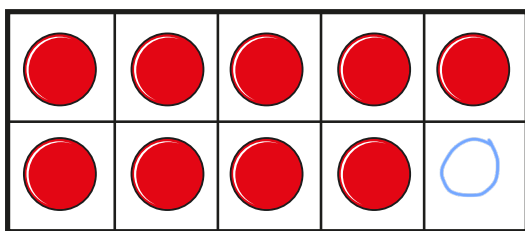
$$5 = \boxed{1} + 4$$

Add by counting on

- 1 There are 9 children on the bus.
5 more children get on the bus.



How many children are on the bus now?
Complete the ten frames and the sentences.



$$\boxed{9} + \boxed{5} = \boxed{14}$$

There are $\boxed{14}$ children on the bus now.

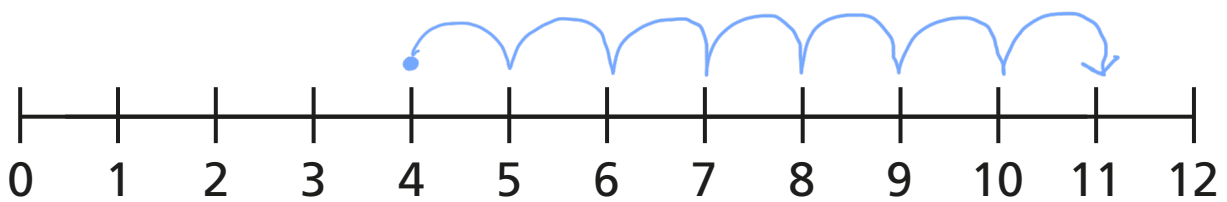


2 Eva has 4 coins.

Jack gives her 7 more coins.

How many coins does Eva have now?

Draw on the number line and complete the sentences.

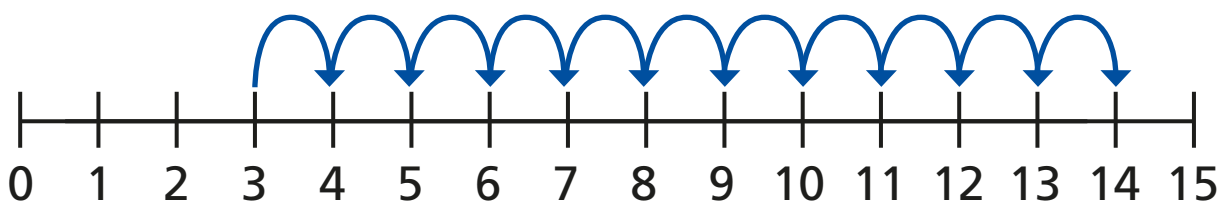


$$\boxed{4} + \boxed{7} = \boxed{11}$$

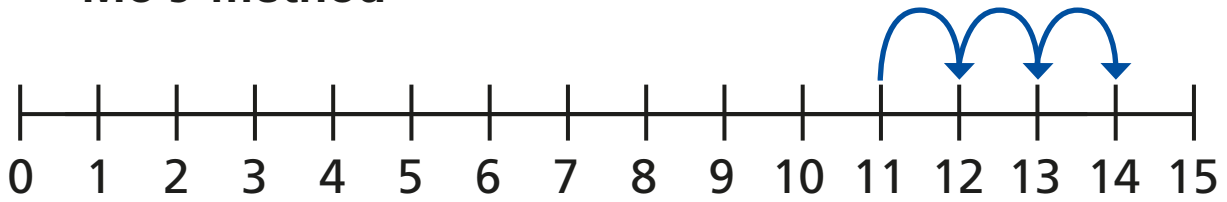
Eva has $\boxed{11}$ coins now.

3 Ron and Mo are working out $3 + 11$ on a number line.

Ron's method



Mo's method

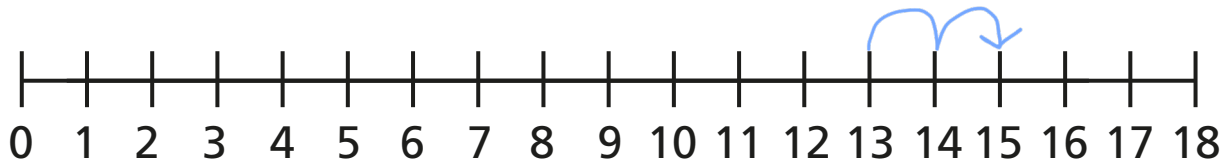


What is the same and what is different?

Use the number lines to work out the additions.

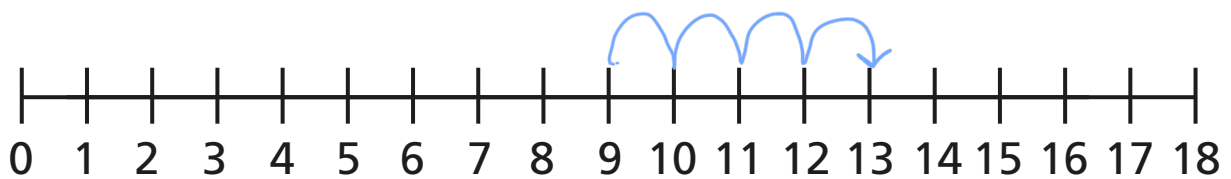
a) $2 + 13 =$

15



b) $4 + 9 =$

13



c) $1 + 17 =$

18

