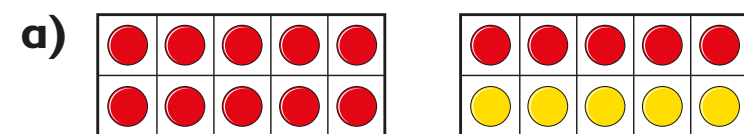
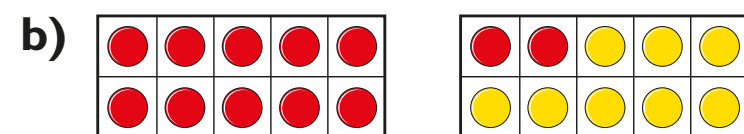


Fact families – addition and subtraction bonds to 20

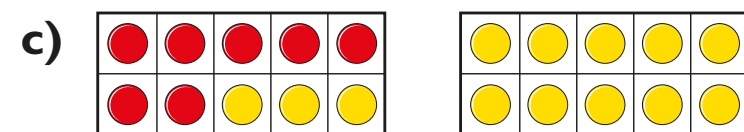
- 1 What calculations are represented?
The first one has been done for you.



$$15 + 5 = 20$$



$$12 + 8 = 20$$



$$7 + 13 = 20$$

- d) How many other number bonds to 20 can you make using counters and ten frames?

Various answers.



- 2 Complete the fact family.

a) $15 + 2 = 17$

$$17 = 15 + 2$$

$$2 + 15 = 17$$

$$17 = 2 + 15$$

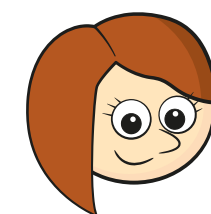
$$17 - 15 = 2$$

$$2 = 17 - 15$$

$$17 - 2 = 15$$

$$15 = 17 - 2$$

- b)

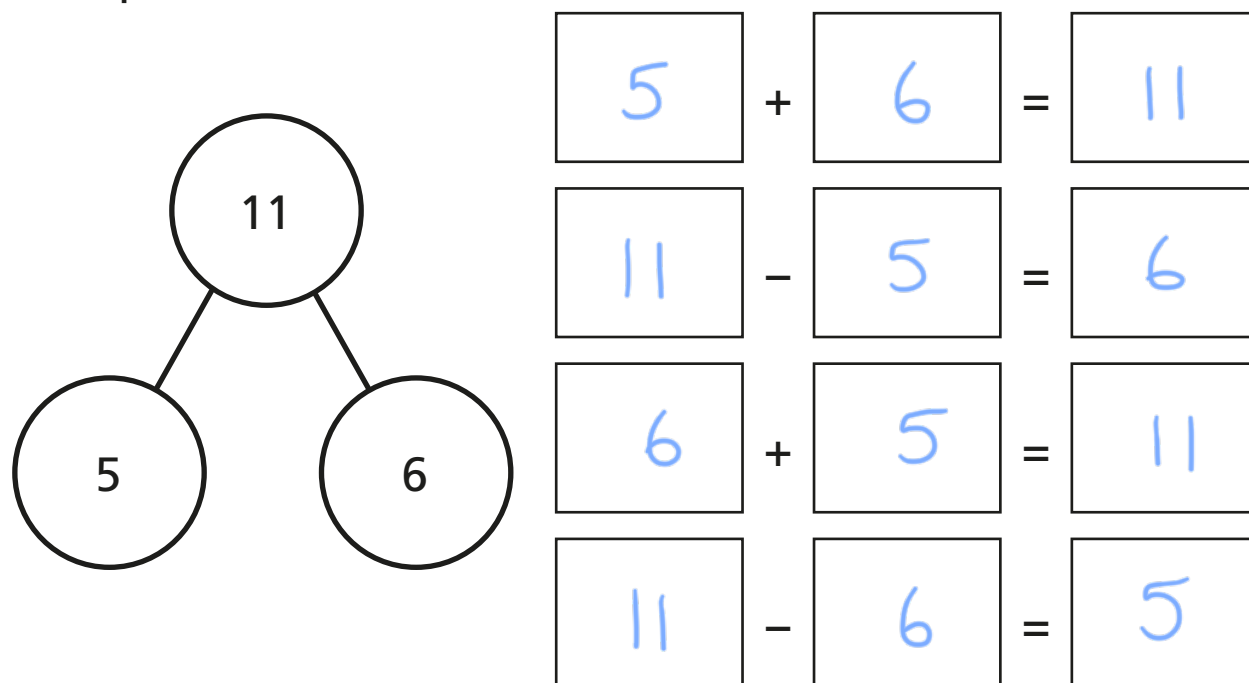


$2 - 17 = 15$ should be in the fact family.

Explain why Rosie is wrong.



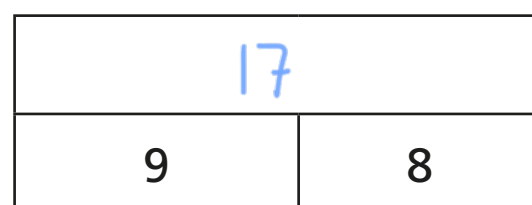
- 3 Complete the number sentences for the part-whole model.



Are there any other number sentences in this fact family?

Talk about it with a partner.

- 4 There are 9 boys and 8 girls in a class. Complete the bar model to represent this.



Write the fact family for the bar model.

$9 + 8 = 17$ $8 + 9 = 17$ $17 - 8 = 9$ $17 - 9 = 8$

$17 = 9 + 8$ $17 = 8 + 9$ $9 = 17 - 8$ $8 = 17 - 9$

- 5 Circle any incorrect calculations.

$$3 + 7 = 10$$

$$10 = 3 + 7$$

$$7 + 3 = 10$$

$$10 = 7 + 3$$

$$10 - 7 = 3$$

$$7 - 3 = 10$$

$$3 - 10 = 7$$

$$7 = 10 - 3$$

Explain the mistake that has been made.

- 6 Here are some number cards.



Choose two number cards and find their total.

E.g. $7 + 6 = 13$

Write the fact family for this calculation.

Compare answers with a partner.