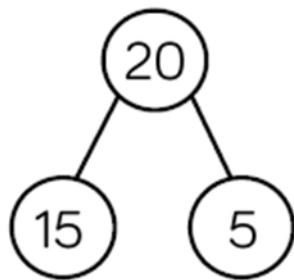
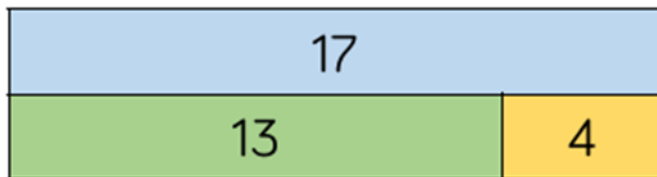


- One relationship shown by this part-whole model is  $15 + 5 = 20$   
Can you write all associated number sentences in the fact family?



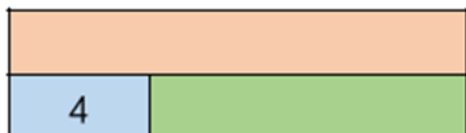
it

- Look at the bar model below.  
Can you write all of the number sentences in the fact family?

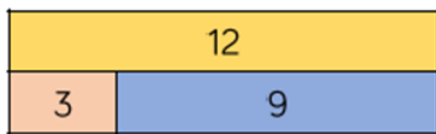


Here is an incomplete bar model.  
The total is greater than 10 but less than 20

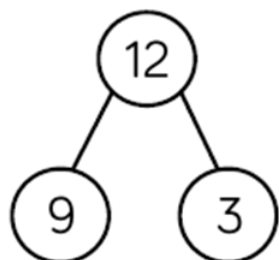
What could the missing numbers be?  
How many different combinations can you find?



Which of the representations are equivalent to the bar model?



$$12 = 9 + 3$$



There are 9 cars in a car park, 3 cars leave.

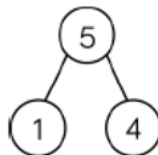
$$9 - 3 = 12$$



### Add 3-digit & 1-digit Numbers

### Varied Fluency

- We can partition our 1-digit number to calculate  $379 + 5$



$$379 + 1 = 380$$

$$380 + 4 = 384$$

Use this method to calculate:

10

$$178 + 9$$

$$826 + 7$$

$$359 + 8$$

### Always, Sometimes, Never

When 7 and 5 are added together in the ones column, the digit in the ones column of the answer will always be 2

What other digits would always give a 2 in the ones column? Prove it.

$$8 - 5 = 3$$

$$8 - 3 = 5$$

$$8 = 5 + 3$$

$$3 = 8 - 5$$

Rosie says,



Ron disagrees.

Who is correct? Can you prove it?

I think that all of these facts are correct because the numbers are related