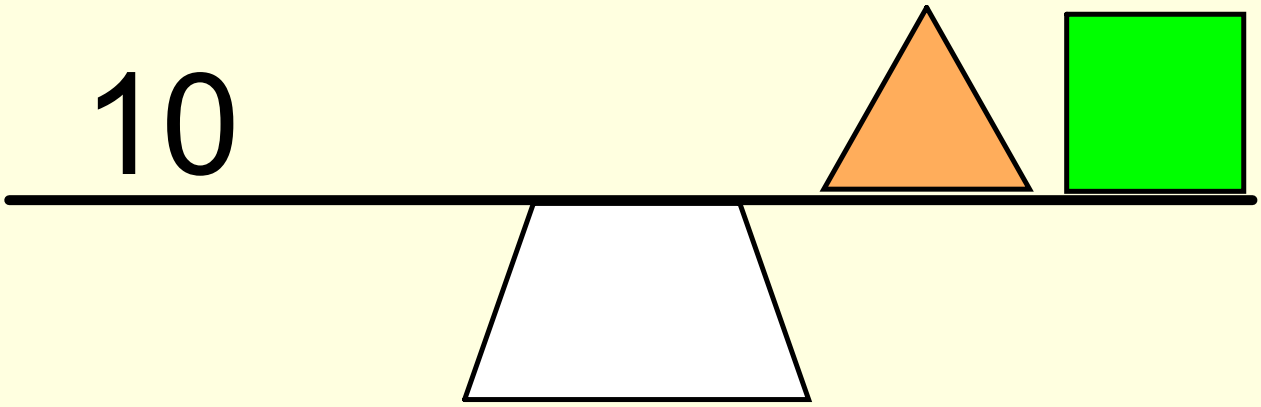
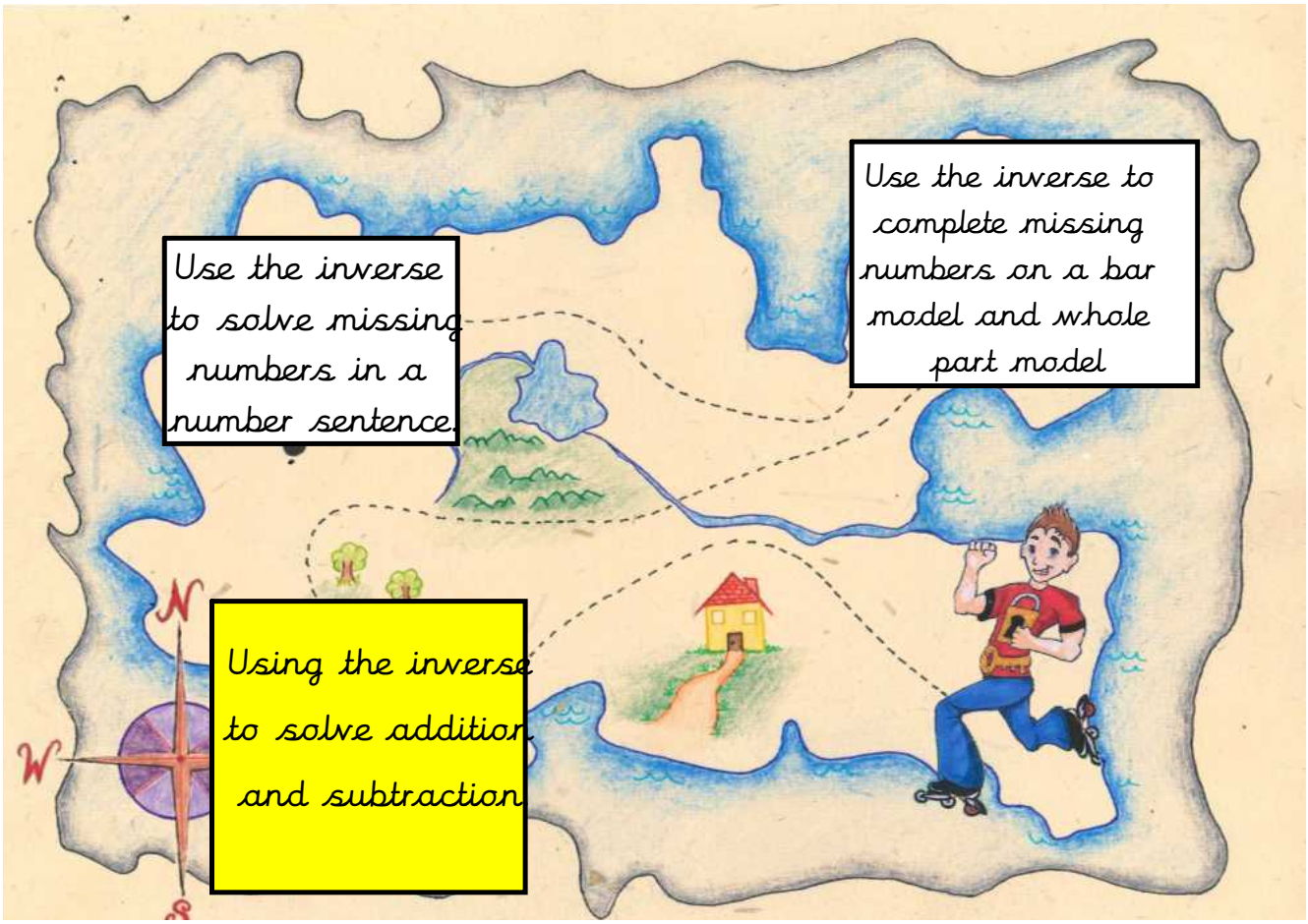
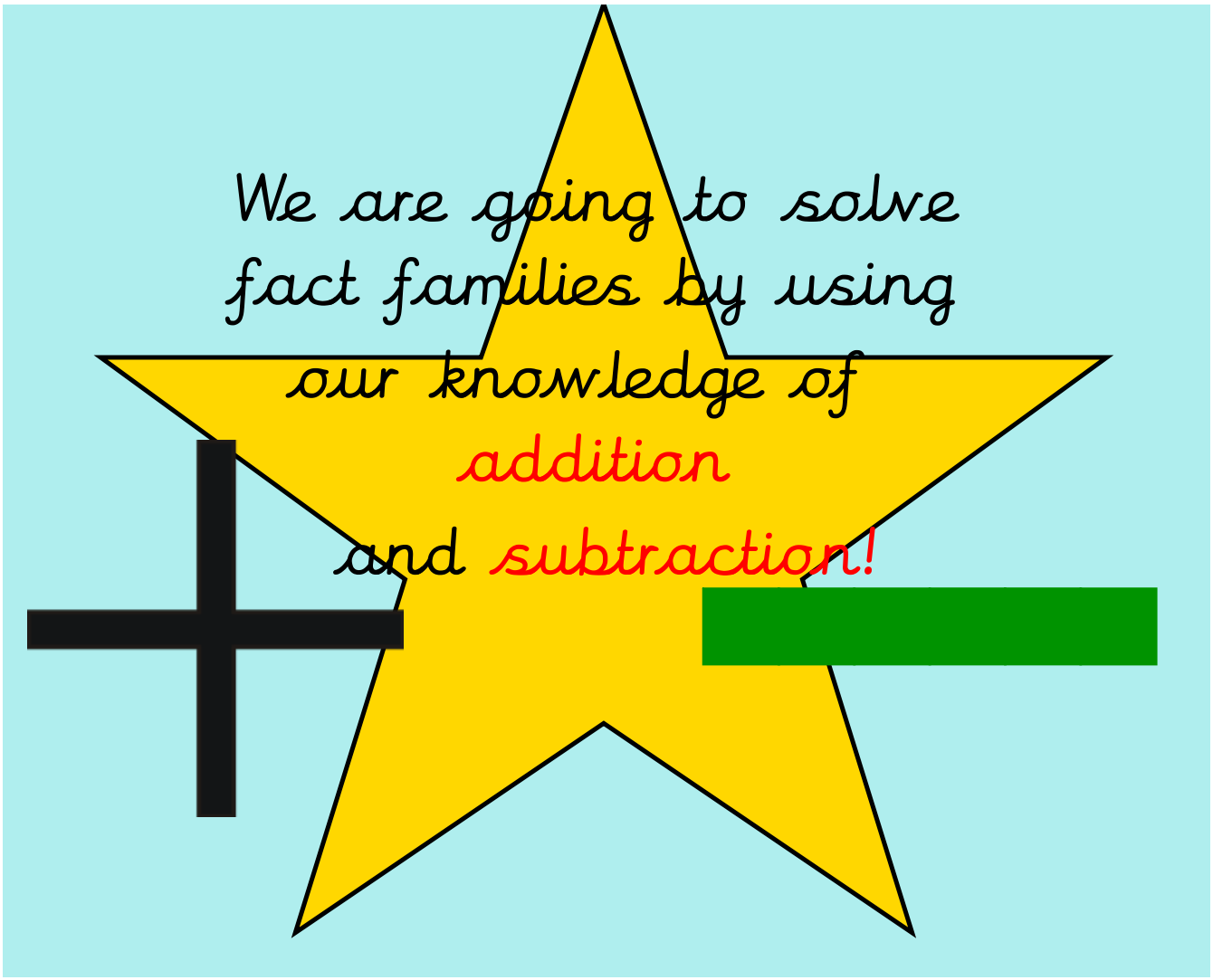
What can the ▲ ■ be worth?



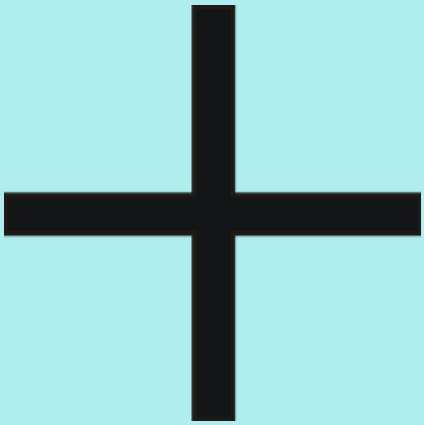
Could they both be the same number?
Could they both be even?


Use the inverse to solve missing numbers in a number sentence.
Use the inverse to complete missing numbers on a bar model and whole part model
Using the inverse to solve addition and subtraction
N
W


We are going to solve fact families by using our knowledge of addition and subtraction!

What do we know about addition?





Can this be correct? 15 + 7 = 8

What do we know about subtraction?



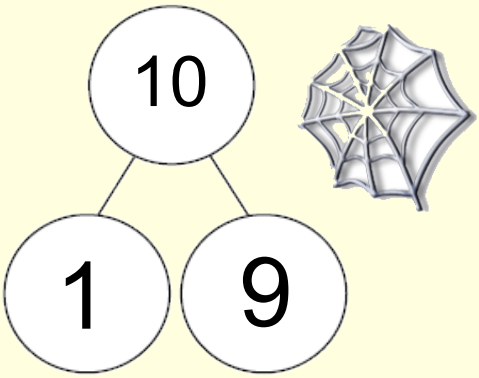


Can this be correct? 6 - 12 = 15

What do these models tell us?



10	
1	9



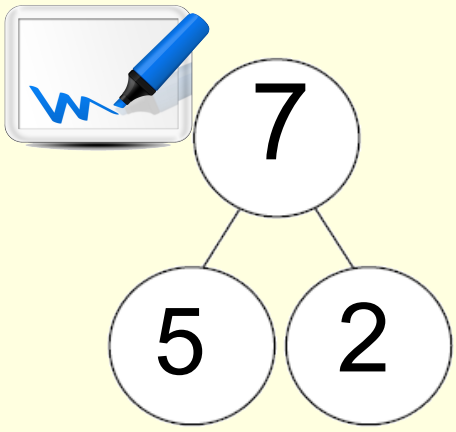
What must be true about the bottom two numbers?

Can you prove the numbers are correct?

How can we check if the numbers on this model are correct using + number sentences?

Remember.....addition is commutative!

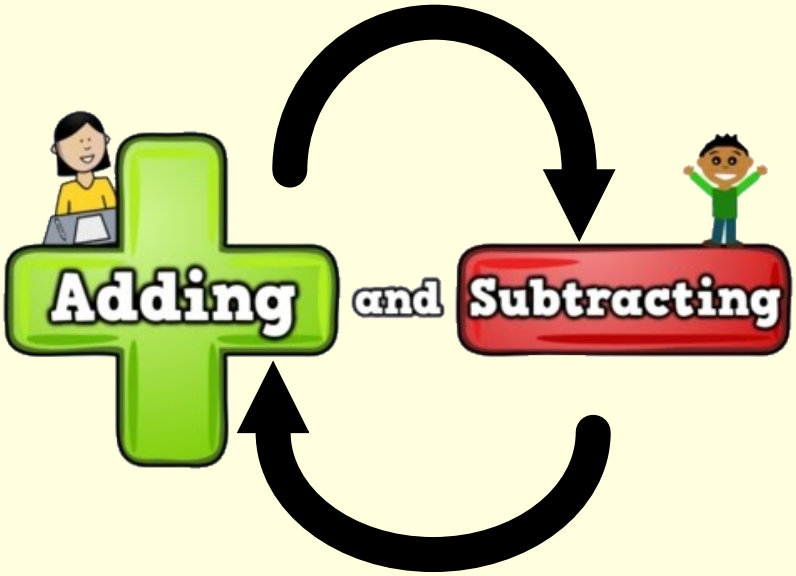
7	
5	2





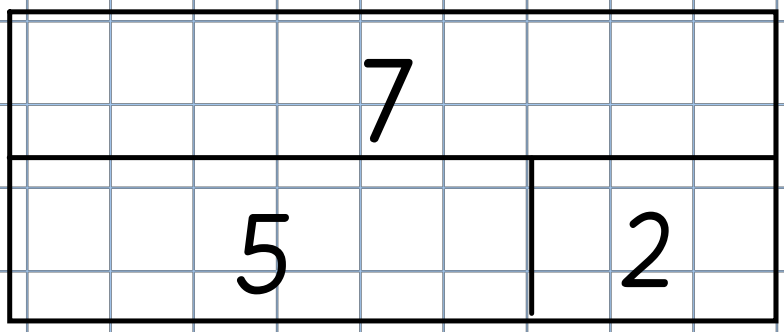
Today we are using the inverse to check the answer!

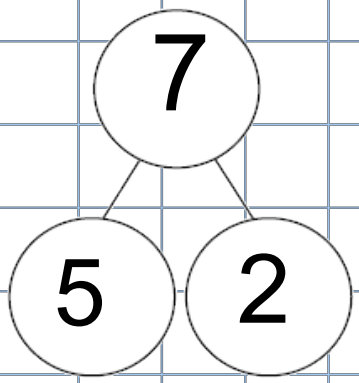
Inverse means the opposite !!!



What addition number sentences can we come up with?

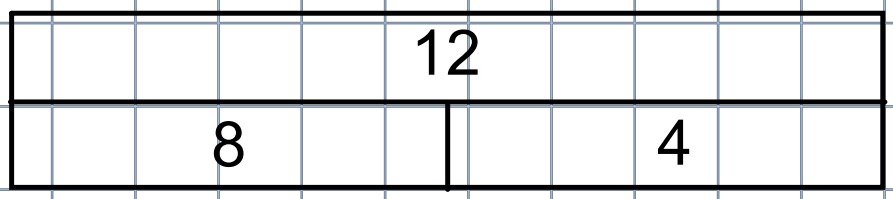
How can we use the inverse to check?

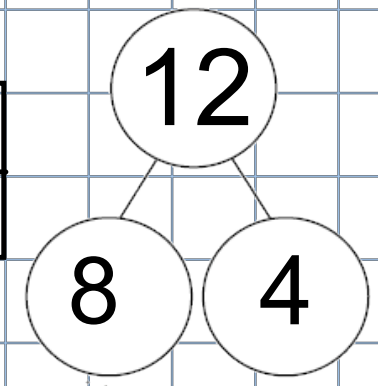


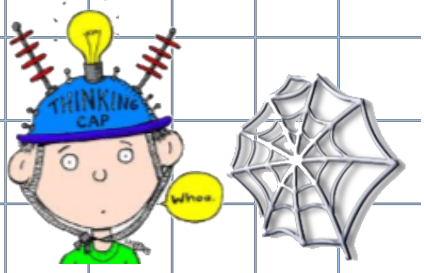




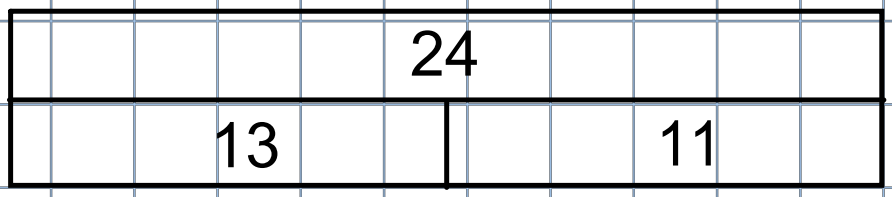
Can you prove these models are correct by using the inverse + -?

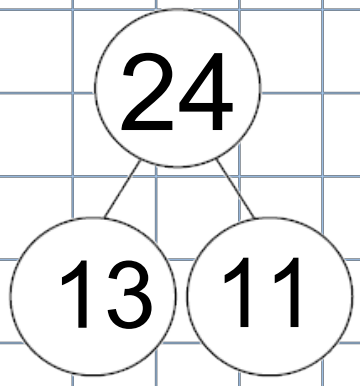






How can you prove the numbers are correct using the inverse?

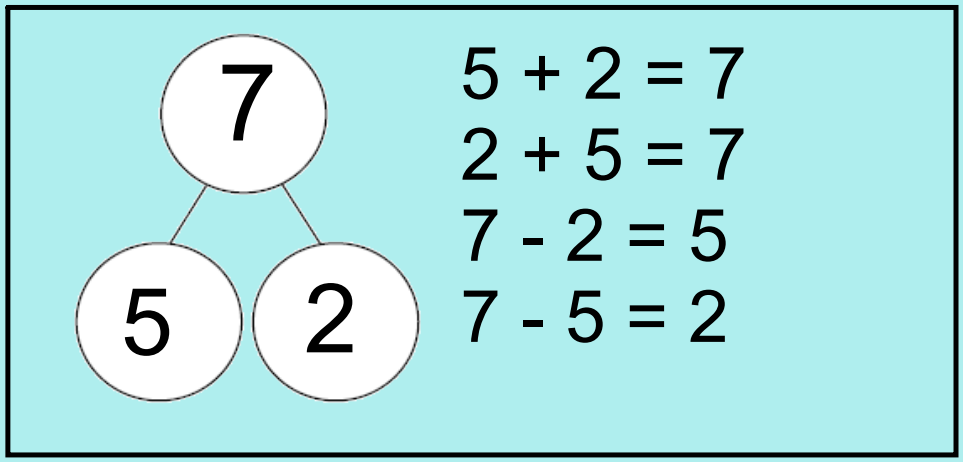






Now it's your turn!

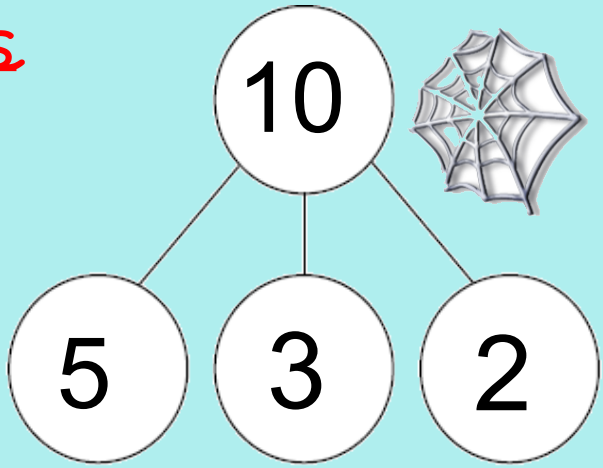
- Glue a model into your book.
- Write the inverse number sentences to go with it.
- Pink/Green - one + and one -
- Blue - two + and one -
- Red - two + and two -
- Challenge - 3 part model!





Challenge - Reds

10		
5	3	2

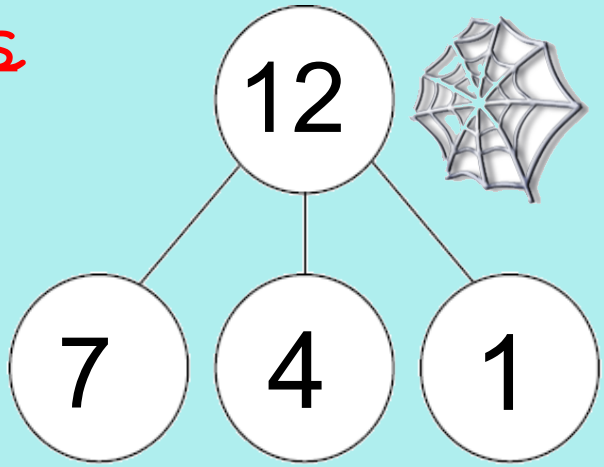


What do these models tell us?
How many + number sentences can we make?
What problem do we have when trying to work out the inverse?



Challenge - Reds

12		
7	4	1



Check this model is correct?
How many number sentences can we make?

- Glue the purple problem into your book!
- How many different number sentences
- can you write to go with it?





What's the missing number?



$12 + \square = 17$

Can you prove it using the inverse?