Possible Solution
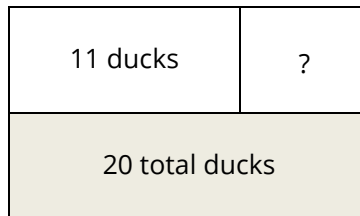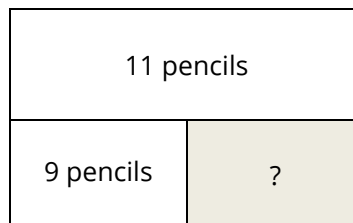
a) In the pond there were 11 ducks swimming. Some more ducks joined them. There are now 20 ducks swimming. How many ducks came to swim with the first 11 ducks? Explain your thinking using a strip diagram and a number sentence.

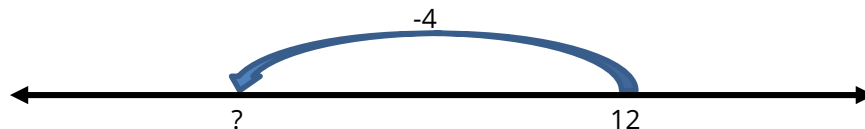| 11 ducks	?
20 total ducks	

I know there are 11 ducks swimming, some more joined, and there is a total of 20 ducks. To figure out how many ducks joined the swimming ducks, I first subtracted 10 from 20 and arrived at the difference of 10. I then subtracted the remaining 1 and arrived at the difference of 9. 9 ducks joined the 11 ducks swimming in the pond. My numbers sentence is 20 – 11= 9.

b) Bea has 11 pencils. Annie has 9 pencils. How many fewer pencils does Annie have than Bea? Explain your thinking using a strip diagram and a number sentence.

11 pencils	
9 pencils	?

I know Bea has 11 pencils and Annie has 9. To determine the difference between the two amounts, I used the counting up strategy by adding 1 to 9 to arrive at the answer of 10. I then counting up one more time to arrive at the answer of 11. I added 1 twice so the difference between 9 and 11 is 2. My number sentence is 9 + 2 = 11 or 11- 9 = 2.

c) There are 12 rabbits playing in the yard. There are 4 adult rabbits, and the rest are babies. How many of the rabbits are babies? Explain your thinking using an open number line and a number sentence.

I know there are 12 rabbits and 4 of those are adults. I am trying to find how many baby rabbits there are. I started at 12 and subtracted 4 and found a difference of 9. My number sentence is 12 – 4 = 9.