

## Possible Solutions

Write a word problem for each of the number sentences. Model each problem with a math drawing and explain how you solved it.

a)  $9 + 7 = \underline{\quad}$

There were 9 red socks and 7 blue socks in the basket. How many socks were in the basket?

The basket had two colors of socks, so I added to find the total number of socks using a strip diagram and making 10 strategy.

? total socks	
9 red socks	7 blue socks

$$\begin{aligned} &9 + 7 \\ &9 + (1 + 6) \quad \text{I split the 7 into 1 + 6 because I know that } 9 + 1 = 10. \\ &(9 + 1) + 6 \\ &10 + 6 \quad \text{Then I added 6 to 10 to get 16.} \\ &16 \\ &\text{So, } 9 + 7 = 16 \end{aligned}$$

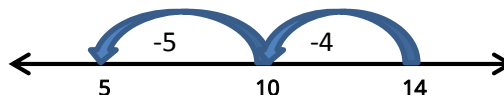
There are 16 socks in the basket.

Write a word problem for each of the number sentences. Model each problem with a math drawing and explain how you solved it.

b)  $14 - 9 = \underline{\quad}$

There were 14 dogs playing in the park. Nine dogs went home. How many dogs were playing in the park now?

14 dogs were at the park and 9 left, so I subtracted to find the number of dogs that were remaining in the park using an open number line and making 10 strategy.



$$14 \text{ dogs} - 9 \text{ dogs} = \underline{\quad} \text{ dogs}$$

$$\begin{aligned} &14 - 9 \quad \text{I can split the 9 into 4 and 5.} \\ &(14 - 4) - 5 \quad \text{I know that } 14 - 4 = 10. \\ &10 - 5 \quad \text{Then I can subtract 5 more from 10 to get 5. I know} \\ &\quad \quad \quad \text{that } 10 - 5 = 5 \text{ because I know that } 5 + 5 = 10. \end{aligned}$$

$$\begin{aligned} &5 \\ &\text{So, } 14 - 9 = 5 \\ &\text{There are 5 dogs playing in the park now.} \end{aligned}$$