We know that total volume of mixture is 45 liters. And ratio of water to milk is $\frac{\text { water }}{\text { milk }}=\frac{2}{13}$. In this case we can find how much milk in this mixture: milk $=45 \cdot \frac{13}{15}=39$. So, there is 39 liters of milk in this mixture. And in this mixture we have already water $=45-39=6: 6$ liters of water.

If we need for ratio $\frac{\text { milk }}{\text { water }}=\frac{3}{1}$, then we will have that: $\frac{\text { milk }}{\text { water }}=\frac{39}{x}=\frac{3}{1} \Rightarrow x=13$. It means that we need to have 13 liters of water to have ratio $\frac{\text { milk }}{\text { water }}=\frac{3}{1}$.

As we have already 5 liters of water then we need to add $\Delta$ water $=13-6=7: 7$ liters of water to have ratio $\frac{\text { milk }}{\text { water }}=\frac{3}{1}$.

Answer: 7 liters.

