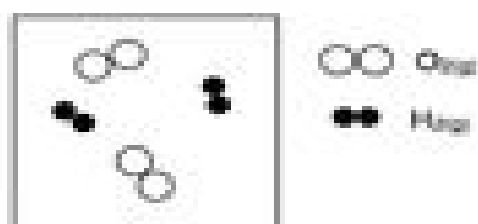
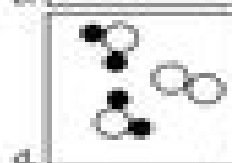
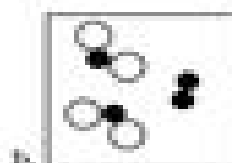
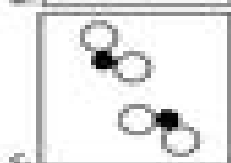
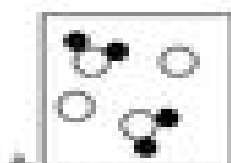


Question



The picture above is a representation of H₂(g) and O₂(g) in a sealed container. Which of the following pictures would be the best representation of the products if the reaction below were to run to completion?



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Answer

The correct answer is "d". In the balanced chemical equation we need 2 hydrogen atoms for each oxygen atom to form water. We will use up all the hydrogen molecules and have one oxygen molecule left over.