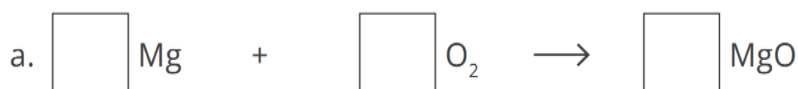
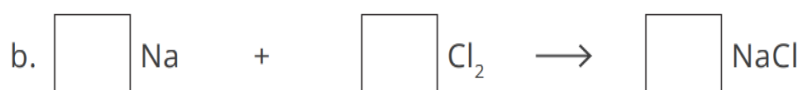


1. Write the word equation **and** balanced symbol equation for the following reactions.
- a. Sodium reacts with hydrochloric acid (HCl) to produce sodium chloride and hydrogen gas.
- Word equation: _____
- Symbol equation: _____
- b. Iron (III) oxide (Fe_2O_3) reacts with carbon to produce iron and carbon dioxide.
- Word equation: _____
- Symbol equation: _____
- c. Calcium carbonate (CaCO_3) thermally decomposes to produce calcium oxide and carbon dioxide.
- Word equation: _____
2. Symbol equation: _____

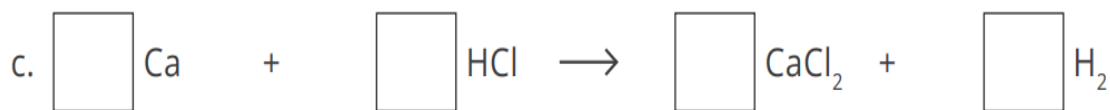
Write numbers in the boxes to balance the equations below. Use the table underneath each equation to help you work out the balancing numbers.



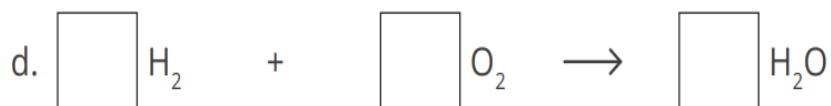
Element	Number of atoms on left-hand side	Number of atoms on right-hand side
magnesium		
oxygen		



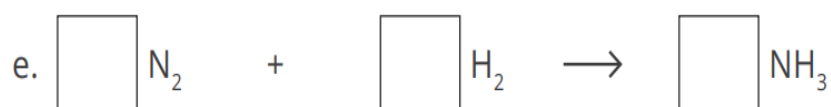
Element	Number of atoms on left-hand side	Number of atoms on right-hand side
sodium		
chlorine		



Element	Number of atoms on left-hand side	Number of atoms on right-hand side
calcium		
hydrogen		
chlorine		



Element	Number of atoms on left-hand side	Number of atoms on right-hand side



Element	Number of atoms on left-hand side	Number of atoms on right-hand side