

1. Identify the following as an Atom (A) or a Molecule (M):

a. ____ H_2O

e. ____ Na

b. ____ O_2

f. ____ NaCl

c. ____ CO_2

g. ____ $\text{C}_6\text{H}_{12}\text{O}_6$

d. ____ Ca

h. ____ NH_3

2. Which one has the most Oxygen atoms?

O_2
Fe_2O_3
H_2SO_4
$\text{C}_6\text{H}_{12}\text{O}_6$

4. Which one has the most Hydrogen atoms?

$\text{C}_6\text{H}_{12}\text{O}_6$
C_6H_{14}
H_2SO_4
NH_3

3. Which one has the most Nitrogen atoms?

NHO_3
NH_3
N_2
CH_4

5. Which one has the most Carbon atoms?

CO_2
C_2H_6
CO
CH_4

6. For the chemical formulas listed below, tell how many atoms of each element there are: **Remember to check for Coefficients which tell you how many molecules there are.**

(The first one has been started for you)

CH ₄	Carbon = 1 Hydrogen =
H ₂ SO ₄	Hydrogen = Sulfur = Oxygen =
3 H ₂ O ₂	Hydrogen = Oxygen =
2C ₆ H ₁₂ O ₆	Carbon = Hydrogen = Oxygen =

Chemical Equations:

Reactants - a substance that enters a chemical reaction (**it reacts**)

Product - a substance that results from a chemical reaction (**is produced**)

Drag the section of the equation to the correct box:



7. The reactants are:	
8. The products are:	