

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



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_2SO_4 | Hydrogen = Sulfur = Oxygen = |
| $3 \text{ H}_2\text{O}_2$ | Hydrogen = Oxygen = |
| $2\text{C}_6\text{H}_{12}\text{O}_6$ | 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: | |