

# CH1011

# Tutorial 1

**Name:**

1. How many **significant figures** in the following numbers:

2.304e-6

0.0010

2.0010

2. What is the alkaline metal in the 3<sup>rd</sup> period and how many **protons** does it have?

Write down the **atomic symbol** for this element and include the **atomic number**.

3. **Balance** the following equation:



4. The above equation is a **combustion reaction** between ethane and oxygen that is responsible for the formation of CO<sub>2</sub> which is one of the major green house gases. If 300g of ethane were combusted in a reaction vessel with 900g of oxygen how much carbon dioxide would be formed in kilograms (kg)?

5. Provide an **IUPAC name** for each of the following compounds: P<sub>4</sub>O<sub>6</sub>      V<sub>2</sub>O<sub>5</sub>      H<sub>2</sub>SO<sub>3</sub>

**Additional information:**

Atomic masses

C 12.0   H 1.0   O 16.0