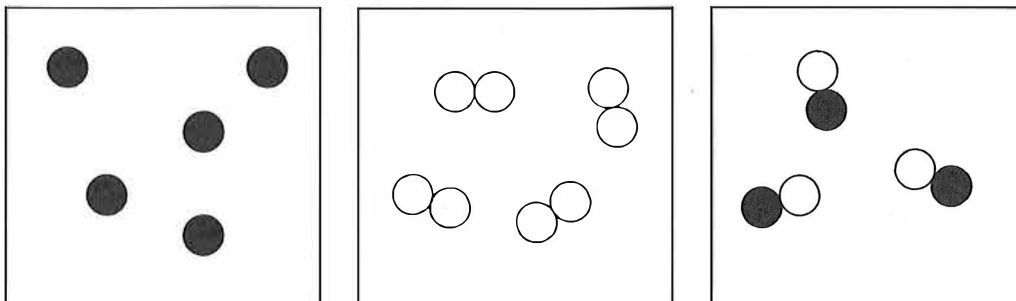


## Elements, Compounds and Mixtures worksheet

1. Which of the boxes contains:

- Molecules of an element?
- Molecules of a compound?
- Atoms of an element?
- Do any of the boxes contain a mixture? Explain your answer.



2. Look at the following substances. Circle the elements and underline the compounds

- a) Li    b) N<sub>2</sub>    c) CO    d) Cl<sub>2</sub>    e) S<sub>8</sub>    f) NaCl

3. How many elements make up each compound?

- a) HCl    b) CaCO<sub>3</sub>    c) HNO<sub>3</sub>    d) H<sub>2</sub>SO<sub>4</sub>    e) CH<sub>3</sub>OH

4. How many atoms are there in each of these molecules?

- a) N<sub>2</sub>    b) CO<sub>2</sub>    c) O<sub>3</sub>    d) CH<sub>4</sub>    e) SO<sub>2</sub>    f) C<sub>2</sub>H<sub>4</sub>

5. Circle the molecule with the most atoms, in each pair;

- HCl or POCl
- NH<sub>3</sub> or HNO<sub>3</sub>
- C<sub>3</sub>H<sub>8</sub> or C<sub>2</sub>H<sub>5</sub>OH
- CH<sub>3</sub>COCH<sub>3</sub> or C<sub>6</sub>H<sub>6</sub>

6. What is the formula for each molecules shown below

