

ELEMENTS, MIXTURES & COMPOUNDS

1. For each of the compounds given below, name the elements which are present and state the number of atoms of each element present.

a) aluminium oxide, Al_2O_3

b) calcium bromide, CaBr_2

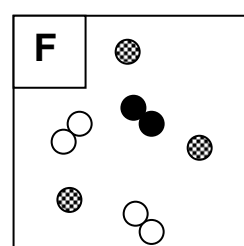
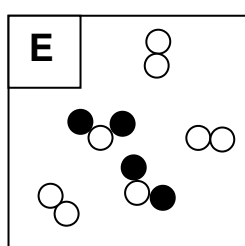
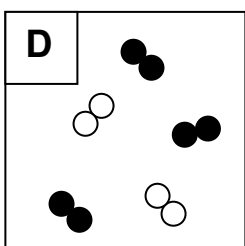
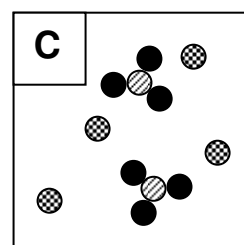
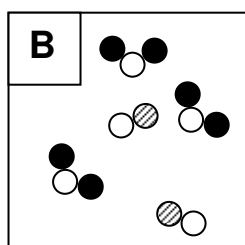
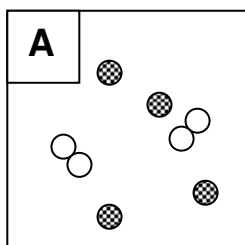
c) sulfuric acid, H_2SO_4

d) magnesium hydroxide, $\text{Mg}(\text{OH})_2$

e) ammonium phosphate, $(\text{NH}_4)_3\text{PO}_4$

f) iron(III) sulfate, $\text{Fe}_2(\text{SO}_4)_3$

2. In each of the diagrams below the different circles represent atoms of different elements.



- a) Which of the diagrams contain only elements but no compounds?

- b) Which of the diagrams contain a mixture of compounds?

- c) Which of the diagrams might represent a mixture of oxygen and hydrogen?
