01 A compound of potassium has the formula $K_2Cr_2O_7$.

(a) How many elements are there in this compound ?

(b) How many atoms are there in this compound ?

(c) Give the formula of each of the ions in this compound.

Your solution here:

02

The relative atomic mass of beryllium is 9 and the relative atomic mass of titanium is 48.

(a) How many times is an atom of beryllium heavier than an atom of carbon - 12 ?

(b) How many times is an atom of titanium heavier than an atom of carbon -12 ?

(c) How many times is an atom of titanium heavier than an atom of beryllium ?

Your solution here:

03

Calculate the number of moles of each element present in 1.00 g of each of the following substances:

(a) Na_3AlF_6

(b) $CuSO_4 5H_2O$
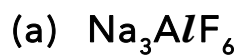
Your solution here:

04

Determine the mass (in grams) of the following:

(a) One molecule of water

(b) 10 moles of $Fe(NO_3)_3$

Your solution here:

05

Calculate the percentage by mass of each element in sodium phosphate, Na_3PO_4.

(a) Percentage by mass of Sodium

(b) Percentage by mass of Phosphorous

(c) Percentage by mass of Oxygen

Your solution here: