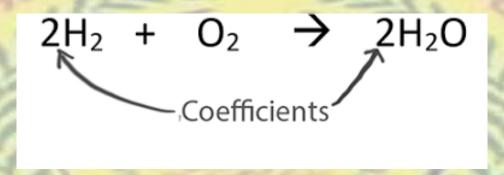


Mole concept and Stoichiometry



Stoichiometry, in chemistry, the determination of the proportions in which elements or compounds react with one another.



Q. How many gram of MgCO3 contains 24 g of O, (Mg = 24, C = 12, O = 16)

- a. 42.2 g
- b. 84.3
- c. 120 g
- d. 54 g



Q1. Consider the following reaction: xAs2S3+yO2→zAs2O3+wSO2

What is y (the coefficient for O2) when this equation is balanced using

whole number coefficients?

- a) 5
- b) 7
- c) 9
- d) 11



Q2. In the reaction:
$$4NH_{3(g)} + 5O_{2(g)} \rightarrow 4NO_{(g)} + 6H_2O_{(l)}$$

When 1 mole of ammonia and 1 mole of O_2 are made to react to completion:

- a. All the oxygen will be consumed.
- b. 1.0 mole of NO will be produced.
- c. 1.0 mole of H₂O is produced.
- d. All the ammonia will be consumed.