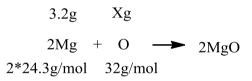
Answer on Question #60296, Chemistry / General Chemistry

1) 3.2 grams of magnesium reacts with oxygen. How many grams of oxygen were consumed?

Solution:

Condition:

- m(Mg)=3.2g
- Ar(Mg)=24.3g/mol
- Mr(O₂)=32g/mol
- M(O₂) ?
 - 1. The magnesium react with oxygen and form the magnesium oxide. From the chemical reaction we get that:



2. 3.2[g]/(2*24.3[g/mol]) = X[g]/32[g/mol]. Hereof X=3.2*32/48.6=2.11[g]

Answer: 2.11g of oxygen were consumed on reaction with 3.2g magnesium.