When magnesium metal be	urns in air,	it combines with	oxygen to for	m magnesium	oxide.
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Write the BCE for the above reaction with the proper subscripts.

2 mg (s) + O2(g) -> 2mgO(s)
Confirm this with someone!
What type of reaction is this:
A) How many moles of oxygen are required to produce 10 moles of magnesium oxide?
10 mol mgo x Imol Oz = 5 mol Oz
B) How many moles of magnesium oxide are produced by the reaction of 130 g of magnesium?
130g mg x Inolmg x Inolmgo x =
C) If 2.60 g of oxygen react, how many moles of magnesium oxide will form?
2.60g Oax inol Ox x 2mol MgO =
D) What mass of oxygen combines with 10.00 g of magnesium in this reaction?
10.00g mg × Imolkg × ImolOd × 32g 02 =
E) What mass of magnesium oxide will be produced by the reaction of 45.00 g of magnesium?
45.00 g mg × 1 mol Mg × 2 mol Mg0 × 40.3 g Mg0
F) If 3.6 x 10 ²⁶ molecules of oxygen are to react, how many moles of magnesium are required?
3.6 × 10 molecs O2 × (mol O2 × 2mol Mg = 1mol O2 = 1mol O2
G) If 1.50 g of magnesium reacts, how many oxygen atoms are involved?
1.50g mg × Inol mg × Inol O2 × 6.02×10 moleco O2 × 2mol mg I mol O2