**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_**

**Mole Ratios & Word Reactions #1**

Directions: Write the following chemical equations from the word problems.

1. Two atoms of Ag reacts with 1 unit of Cu(SO4) to produce 1 unit of Ag2(SO4) and one atom of Cu.

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1. One molecule of O2 reacts with one molecule of H2 to produce 2 molecules of H2O.
2. One atom of Zn reacts with 1 unit of Pb(NO3)2 to produce 1 unit of Zn(NO3)2 and 1 unit of Pb.
3. 2 units of AlBr3 reacts with 3 molecules of Cl2 to produce 2 units of AlCl3 and 3 molecules of Br2
4. 2 units of Na3(PO4) reacts with 3 units of CaCl2 to produce 6 units of NaCl and 1 unit of Ca3(PO4)2
5. 1 molecule of C4H8 reacts with 6 molecules O2 to form 4 molecules of CO2­ and 4 molecules of H2O.
6. 2 molecules of Na2O decomposes to form 4 atoms of Na and 1 molecule of O2
7. 1 molecule of N2 and 2 molecules of O2 react to form 2 molecules of N2O