

Name: _____

Period: _____

HW4:5 Balancing Chemical Reactions 2
Mr. Murray, IPC

Assigned: Thurs., 11/16 and Fri., 11/17
Due: Tues., 11/14 and Wed., 11/15

1. Aluminum 27
 - A. # of protons: _____
 - B. # of valence electrons: _____
 - C. Oxidation #: _____
 - D. Metal or Nonmetal: _____
 - E. Gains or loses electrons? _____
 - F. How many gained or lost? _____
 - G. # of neutrons? _____
 - H. # of full electron levels? _____
 - I. Below give the formula of Al combining with F.
2. When iron is exposed to oxygen it will oxidize (combine with oxygen). It will rust. Chemical or physical change?
3. Balance this reaction: $\text{___ ZnO} \rightarrow \text{___ Zn} + \text{___ O}_2$
4. In the above reaction
 - A) How many reactants are there?
 - B) How many products?
 - C) Is zinc oxide being created or broken up?
 - D) Are the elements being combined (added) or broken up (decomposition)?

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5. Balance this reaction:
 $\text{___ Mg(OH)}_2 + \text{___ Li}_2\text{O} \rightarrow \text{___ MgO} + \text{___ Li(OH)}$
6. In the above reaction,
 - A) How many oxygens are on the reactant side (before it is balanced)?
 - B) How many reactants? C) How many products?
 - D) Notice that the OH and O switch places.
Is this double displacement or single displacement?
(Do one or two elements switch places?)
7. Mitosis (Mi) or Meiosis (Me)?
 - _____ My skin heals after I get scratched.
 - _____ When sperm or egg are produced.
 - _____ The result is a haploid cell.
8. Gamete or Zygote?
 - _____ Sex cells
 - _____ a fertilized egg
 - _____ has a full set of chromosomes
 - _____ has a half set of chromosomes
9. Haploid or Diploid?
 - _____ Has a full set of chromosomes
 - _____ Has a half set of chromosomes
 - _____ sex cells
 - _____ a fertilized egg