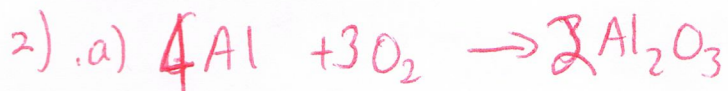
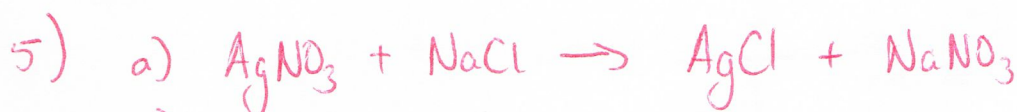


## Chem Rxn Review Key

- 1) a) dinitrogen pentoxide  
 b) Copper (II) bromide  
 c) Lead (II) sulfate  
 d) Sodium carbonate  
 e) Carbon tetrachloride  
 f) potassium phosphate.



- 3) a) decomp  
 b) D.D  
 c) S.D  
 d) synthesis  
 4) H O F Br I N Cl



6) a)  $2 \times 14 =$  }  $108 \text{ g/mol}$   
 $5 \times 16 =$

b)  $63.55 + 2(79.9) = 223.35 \text{ g/mol}$

c)  $207.2 + 32.07 + 4(16) = 303.27 \text{ g/mol}$

d)  $2(23) + 12 + 3(16) = 106 \text{ g/mol}$

e)  $12 + 4(35.45) = 153.8 \text{ g/mol}$

f)  $3(39.1) + 30.97 + 4(16) = 212.27 \text{ g/mol}$

7)  $0.75 \text{ mol of Zn} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mol of Zn}} = 4.5 \times 10^{23} \text{ molecules of Zn}$

8)  $16.9 \text{ g of CCl}_4 \times \frac{1 \text{ mol}}{153.8 \text{ g}} = 0.11 \text{ mol of CCl}_4$

9)  $3.80 \text{ mol Na}_2\text{CO}_3 \times \frac{106 \text{ g}}{1 \text{ mol}} = 402.8 \text{ g of Na}_2\text{CO}_3$

10)  $33.6 \text{ L of He} \times \frac{1 \text{ mol}}{22.4 \text{ L of He}} = 1.5 \text{ mol of He}$