Kedox Exercise (Part 2)

#### Chapter 20 Worksheet: Redox ANSWERS

 Determine what is oxidized and what is reduced in each reaction. Identify the oxidizing agent and the reducing agent, also.

2Sr + O<sub>2</sub> → 2SrO Sr<sup>0</sup> to Sr<sup>2+</sup>; oxidized/reducing agent O<sup>0</sup> to O<sup>2</sup>; reduced/ox. ag.

2. 2Li + S → Li<sub>2</sub>S Li<sup>0</sup> to Li<sup>1\*</sup>; oxidized/red. ag. S<sup>0</sup> to S<sup>3\*</sup>; reduced/ox, ag.

2Cs + Br<sub>2</sub> - 2CsBr Cs<sup>6</sup> to Cs<sup>1+</sup>: oxidized/red. sg. Br<sup>0</sup> to Br<sup>1+</sup>; reduced/ox. ag.

3Mg + N<sub>2</sub> → Mg<sub>3</sub>N<sub>2</sub> Mg<sup>0</sup> to Mg<sup>2+</sup>; oxidized/red. ag. N<sup>0</sup> to N<sup>3+</sup>; reduced/ox. ag.

4Fe + 3O<sub>2</sub> → 2Fe<sub>2</sub>O<sub>3</sub> Fe<sup>6</sup> to Fe<sup>3\*</sup>; oxidized/red. ag. O<sup>6</sup> to O<sup>1\*</sup>; reduced/ox. ag.

Cl<sub>2</sub> + 2NaBr → 2NaCl + Br<sub>2</sub> Cl<sup>0</sup> to Cl<sup>1</sup>; reduced/ox. ag. Br<sup>1</sup> to Br<sup>0</sup>; oxidized/red. ag.

Si + 2F<sub>2</sub> → SiF<sub>4</sub> Si<sup>0</sup> to Si<sup>40</sup>; exiding freed, ag F<sup>0</sup> to F<sup>1</sup>; reduced/ox, ag.

Mg + 2HCl → MgCl<sub>2</sub> + H<sub>2</sub> Mg<sup>0</sup> to Mg<sup>2+</sup>; oxidized/red. ag. H<sup>1+</sup> to H<sup>0</sup>; reduced/o.a.

10. 2Na + 2H<sub>2</sub>O → 2NaOH + H<sub>2</sub> Na<sup>0</sup> to Na<sup>1\*</sup>; oxidized/r.a. H<sup>1\*</sup> to H<sup>0</sup>; reduced/o.a.

Give the oxidation number of each kind of atom or ion.

a. sulfate b. Sn c. S<sup>2-</sup> d. Fe<sup>3+</sup> e. Sn<sup>4+</sup> f. nitrate g. ammonium 2- 0 2- 3+ 4+ 1- 1+

12. Calculate the oxidation number of chromium in each of the following.

a.  $Cr_2O_3$  b.  $Na_2Cr_2O_7$  c.  $CrSO_4$  d. chromate e. dichromate 3+ 6+ 2+ -7+ 6+

13. Use the changes in oxidation numbers to determine which elements are oxidized and which are reduced in these reactions. (Note: it is not necessary to use balanced equations)

a. C + H<sub>2</sub>SO<sub>4</sub> → CO<sub>2</sub> + SO<sub>2</sub> + H<sub>2</sub>O C<sup>0</sup> to C<sup>4+</sup>; oxidized S<sup>6+</sup> to S<sup>4+</sup>; reduced

b. HNO<sub>3</sub> + HI -- NO + I<sub>2</sub> + H<sub>2</sub>O N<sup>5+</sup> to N<sup>2+</sup>; reduced I<sup>1-</sup> to I<sup>6</sup>; exidized

c. KMnO<sub>4</sub> + HCl -- MnCl<sub>2</sub> + Cl<sub>2</sub> + H<sub>2</sub>O + KCl Mn<sup>2</sup> to Mn<sup>2</sup>; reduced Cl to Cl condized

d. Sb + HNO<sub>3</sub>  $\longrightarrow$  Sb<sub>2</sub>O<sub>3</sub> + NO + H<sub>2</sub>O Sb<sup>0</sup> to Sb<sup>3+</sup>; oxidized N<sup>5+</sup> to N<sup>2+</sup>; red.

14. For each reaction in problem 13, identify the oxidizing agent and reducing agent.

a. oxidizing agent: sulfur reducing agent: carbon

b. oxidizing agent: nitrogen reducing agent: iodine

oridizing agent, manganese reducing agent: chloride.

d. oxidizing agent: nitrogen reducing agent: antimony

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