**Voltaic Cell Problems**



**“The RED CAT gets fat.”**

Calculate the potential (voltage) of a cell made using the above materials.

Remember—the more “positive” ½ reaction is the one that takes place.

A **positive cell potential** means the reaction is **spontaneous** i.e. it will occur.

**1)** Sketch and calculate the cell made using the following chemicals:

* Magnesium and Iron
* 1 M Magnesium nitrate and 1 M Iron (III) nitrate

 Which is the more reactive metal and why?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2)** Can I stir a gold (I) nitrate soup with an aluminum spoon?

Sketch the “soup” and “spoon” and calculate.