**Part 2**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_**

# genfertbagCommercial Fertilizers (Pg. 185)

The three numbers on a bag of commercial fertilizers are a

 convenient signal for gardeners. Each number represents the

 percentage of chemical found in the bag. How does each of the

chemicals effect the development of the plant? (*found on pg. 183*)

1. *Nitrogen* –
2. *Phosphorous* –

*\*know the order of the chemicals on a fertilizer bag and what each does\**

*3. Potassium* -

**For the following situations**, what number would you want to be the highest and explain why?

1. Planting a new tree into an area.
2. Seeding an area in order to grow grass.
3. Trying to get a rose bush to produce a lot of flowers.

**The development of fertilizers** whichincreases the amount of nitrates (nitrogen) in the soil, in combination with **high yield crop varieties**, has greatly increased plant growth. Since 1950, crop production has double worldwide. (Pg. 186)

a) What is a benefit to using fertilizers worldwide?

b) Although this seems positive, list **3 problems** that have now been associated with commercial fertilizers and high yield crops.