**Pyramids of Biomass**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Producer

100% of the energy

Primary

 10% of the energy

Secondary

1% of the energy

Tertiary

 0.1%

4

3

2

1

**Solve the following questions using your knowledge that only 10% of the energy is passed on through each trophic level as they move up. You may use a calculator if you need to. Write your answers on loose-leaf and please show your thinking process and mathematical steps.**

1. If there is 500kg of mass in the first trophic level (producers), what will the amounts of mass be in the other three levels?
2. If there is 250kg of mass in the second trophic level (primary consumers), what amounts of mass will be in the other three trophic levels?
3. If there is 0.7g of mass in the fourth trophic level, what will the amount of mass be in the three other trophic levels?
4. If there is 85g of mass in the third trophic level (secondary consumers), what will the amounts of mass be in the other three trophic levels?
5. If there is 7650g of mass in the second trophic level, what will the amounts of mass be in the other three levels?
6. If there is 9300g of mass in the first trophic level, what will the amounts of mass be in the other three levels?