**Got Milk? Group Project Document 1 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**To Complete Document 1, you need to INDIVIDUALLY...**

1. Design a carton. You will need to create a net for the carton that can be folded into the carton. Don’t forget to include tabs on the sides that need to be glued/sealed together.  *(You can draw your net on the back of this paper. Please use a ruler.)*
2. Once you have your net design you need to label with measurements and dimensions. Don’t forget to include units of measure.
3. Once you have measurements, you will need to answer the questions below to find the surface area and volume for your carton. Remember, you want your carton to hold 10 oz of milk with little wasted space as well as minimal surface area (less paper needed).

What shape(s) is your carton? (If it is a combination of more than one 3D shape, list them all here).

Find the volume of each of these shapes individually, then combine them to find the total volume of your container. List all of the dimensions needed to find each volume. SHOW WORK.

Find the surface area of each of the shapes here. Please only find area of surfaces that would actually be part of the carton. SHOW WORK.

Find area of any tabs that are part of your net and will be used for gluing the carton together. Then add all the tabs and the surface areas you found above to find out **how much paper your net** **would use**. SHOW WORK.