**Got Milk? Group Project Document 2 Names:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**To Complete Document 2, you need to...** *(Rough Draft for your final product)*

1. Compare your designs and decide as a group which design you like best. You will want to consider all factors such as best volume, least paper used, overall aesthetic and marketability.
2. Once you choose a design, you need to **design the cutter** that will stamp the shapes out of the sections of paper at the plant. Remember, you want to get as many of the nets as possible while wasting as little paper as possible. You will then need to **find out how much waste** (unused paper) you expect from each roll of paper at the plant. The roll of paper is 120 inches wide and 20 feet long.

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

TOTAL surface area (including tabs): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Showing all calculations, answer the following questions:**

How many nets can you fit across the width of the roll of paper?

How many nets can you fit down the length of the roll of paper?

Total number of nets that can fit on the entire roll of paper:

Total amount of paper being used:

Amount of wasted paper:

Since the cutter most likely cannot be the entire size of the roll of paper, design a cutter on the back of this paper that will fit multiple nets. Remember, we want to be efficient and cut out more than one net at a time. Please use a ruler.

**How many stamps can you make with your cutter over the entire roll of paper?**