

Project Sheet

You are a research group for a major food production company. A description of your job follows:

1. Name your company and decide what product you are selling. **BE CREATIVE!**
2. Find the cheapest way to package your product with the following restrictions:
 - a. You must package your product in a such a way that you know how to find the surface area and volume of the shape (you are allowed to find the formulas for surface area and volume of cones and spheres from your book—we will learn more about those in the next class). Be creative...this may involve using several different shapes of which you know how to find the surface area and volume.
 - b. Your package must have a volume between 200 and 250 cubic inches.
 - c. You must use one of the following products (or a combination there-of):
 - i. **Cardboard:** \$.16 per square inch (you must purchase by the square inch)
 - ii. **Plastic:** \$.82 per square foot (you must purchase by the square foot)
 - iii. **Styrofoam:** \$2.02 per square yard (you must purchase by the square yard)
3. When presenting your packaging design, you must disclose the volume and surface area of your object. You must also turn in all your work on how you calculated the surface area and volume (including all measurements that you made). *Do not forget to include units on all your calculations!*
4. You must list three reasons your design is good, and three possible problems your design would have if it was actually made. Try to consider all different reasons such as shipping, what you are packaging (if it needs to be kept cold, dry, etc.)