

Name \_\_\_\_\_

Period \_\_\_\_\_

### Food Container Design

You are designing a container for a food company. The container can be any shape but must be able to be made out of the piece of construction paper (you are creating a prototype using the construction paper). The goal is to maximize volume and minimize surface area. Make all of your measurements in **inches**.

Container Shape: \_\_\_\_\_

Surface Area (show work): \_\_\_\_\_

Volume (show work): \_\_\_\_\_

Ratio of volume to surface area: \_\_\_\_\_

Cost of materials to create container ( $\$0.022/\text{in}^2$ ): \_\_\_\_\_

What are the advantages to using your container shape?

What are the disadvantages to using your container shape?