

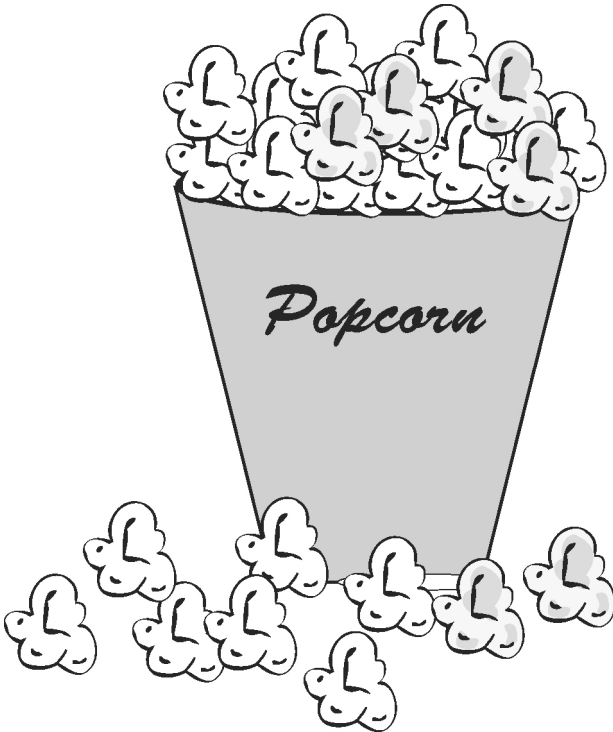
Name: _____

Date: _____

Design a Popcorn Container

Materials

- 0.5 cm grid paper



Your club runs the concession stand at the local movie theatre. You have been given a lot of free cardboard the size of a piece of notebook paper.

In order to save money, you would like to use this cardboard to design a popcorn container to hold a volume of no less than 400 cm^3 .

1. Draw a net for your design and label the dimensions. The dimensions should reflect the actual size planned.
2. Calculate the volume of your container. Justify your work mathematically.
3. The club's ad agency is interested in buying the rights to a container design for the popcorn sold at the theatre. Justify why they should consider your design.