

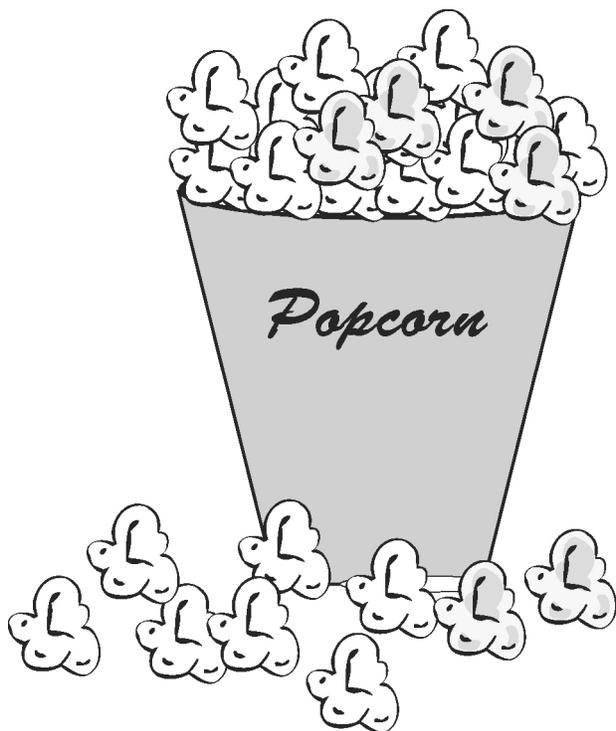
Name: _____

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.